



D8 XCEL

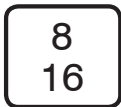
D16 XCEL



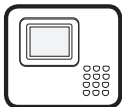
Navigator, Saturn or KPX+ keypad options

# D8XCEL / D16XCEL ALARM CONTROL PANEL

## 8 / 16 Zone Control Panels with Cellular Dialler



8 or 16  
Hardwired or  
Wireless zones



Various  
Keypad  
Options



Cellular  
Dialler  
Onboard



Operation by  
Smartphone /  
Internet



Operation and  
Monitoring via  
SMS



Access  
Control  
onboard



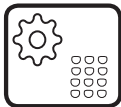
Powerful  
Wireless  
Options



Auto-Time  
Automation



8 x AUX  
Outputs



Easy  
Programming  
via Keypad



Fast  
Programming  
via PC



Free  
NessComms  
Installer Software



Convenient  
Programming  
via SMS



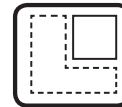
Adjustable  
Vibration Inputs  
on all Zones



C-BUS  
Compatible  
using Ness  
MiniCentral



Multiple  
Arming  
Modes



Area  
Partitioning



Dual Voltage  
17VAC & 20VDC



CORPORATION

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D8/D16 XCEL  
INSTALLATION & PROGRAMMING MANUAL

Document Part No: 890-474

Rev 1.0 October 2018

For use with Ness D8XCEL/D16XCEL control panels with 3G Dialler V10 and later.

Related manuals:

890-473 D8/D16 XCEL LCD Keypad User Manual

890-472 D8/D16 XCEL Navigator Keypad User Manual

Previous manuals:

890-017 Installation manual for D8x/D16x with PSTN dialler.

**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.

**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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Ness reserves the right to make changes to features and specifications at any time without prior notification in the interest of ongoing product development and improvement.

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## What's New in D8XCEL / D16XCEL

- New PCB layout
- 3G Cellular dialler onboard
- Operation via SMS messaging
- Programming via SMS
- Alarm reports via SMS or back-to-base
- Remote operation and programming via the free NessXCEL app

## Features

- 8 or 16 alarm zones.
- Supports up to 3 mixed keypads (Navigator/Saturn/LCD) or 4 Navigator keypads
- 56 user codes can be programmed to operate by keypad PIN, radio key or access card.
- Optional NESS RADIO INTERFACE for fully integrated wireless security.
- Programmable 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.
- Supports control via INTERNET using Ness iComms/aComms iPhone/iPad and Android apps and optional ethernet adapter.
- 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 actively tests the battery under load every hour and every time a keypad code is entered.
- 8 PROGRAMMABLE AUXILIARY outputs.
- 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 can be accessed using Navigator keypad or NessComms™.
- Standard defaults to suit most applications.
- Easy programming by keypad or NessComms™ software.
- New modem chip allows common modems to be used for upload/download in 300baud mode.
- 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 with dual 17VAC/20VDC power input
- Optional output expander.

### DIALLER

- 3G dialler onboard
- Direct-connect upload/download using NessComms™ software.
- View system status and arm/disarm using NessComms™.
- Remote control of outputs via telephone with voice prompts.
- Operation via SMS messaging
- Programming via SMS
- Alarm reports via SMS or back-to-base
- Remote operation and programming via the free NessXCEL app



Ness XCEL

**OPTIONAL APP**

## NESS XCEL APP

iOS and Android app

NessXCEL app for iPhone or Android devices provides easy operation and control of your D8D16XCEL panel in the palm of your hand.

Arm, Disarm

View zone status

Emergency alarms

Control panel outputs

User & Installer Programming

This app does not require the optional ethernet kit but does require an active SIM card in the D8XCEL or D16XCEL panel.

iPhone/iPad/Smartphone not included.



Ness iComms  
Ness aComms



**OPTIONAL APP**

## NESS iCOMMS/ aCOMMS

iOS and Android apps

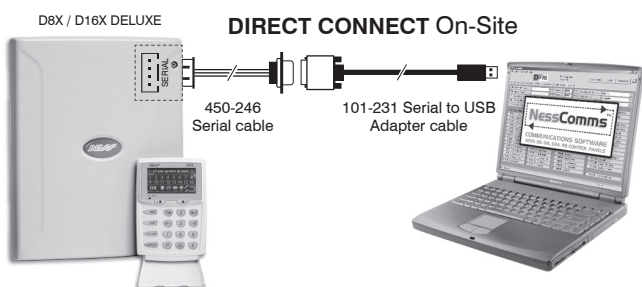
iComms and aComms apps for mobile control of D8/ D16 control panels using your iPhone/iPad or Android device.

Arm, Disarm, View zone status, Emergency alarms, Control the panel outputs.

Requirements:  
D8XCEL or D16XCEL panel fitted with the optional K-6002D Ethernet kit (includes 101-244 Ethernet adapter & 450-246 RS232 cable).

iPhone/iPad/Smartphone not included.

iComms and aComms are third party apps which are endorsed by Ness without tech support. Emergency alarms must be enabled in the control panel to be available in iComms and aComms.



Note:  
D8x/D16x and XCEL models (v8 and later) use 450-246 serial cable (4 pin)  
Previous versions of D8x/D16x use 450-185 RS232 cable (3 pin)

**FREE SOFTWARE**

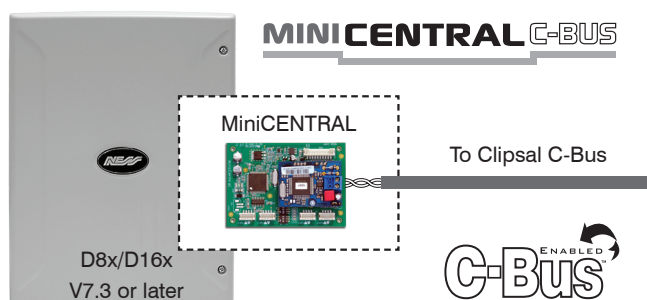
## NESSCOMMS

Powerful PC-based programming & operation software

- Fast and easy installation programming
- Live zone status mode
- Download system logs, including extended logs not accessible by keypad - up to 80 events
- Database stores hundreds of clients
- Free For Trade users

NessComms makes on-site control panel programming as simple as ticking the boxes.

Direct connect via serial port for fast and easy programming by laptop/PC. The Ness 450-xxx Serial Cable is required.



**OPTIONAL PRODUCT**

## MINICENTRAL

Ness MiniCENTRAL C-Bus interface combined with a Ness D8x/D16x control panel gives you full two-way C-Bus control and all the features and benefits of a powerful alarm panel.

- Fully Clipsal approved C-Bus Enabled Product.
- Controls up to 255 individual C-Bus lights or outputs. Includes full dimming, On/Off and toggle commands.
- True 2 way communications on the C-Bus network.
- Connects directly onto C-Bus without the need for additional hardware such as a PCI Interface.
- Many D16X events or status changes can control modules on the C-Bus.
- C-Bus Trigger Control and Enable Control.
- C-Bus events can control the D8x/D16x.
- Multiple onboard SERIAL repeater ports means the D8x/ D16x panel can also connect to other serial devices while connected to MiniCENTRAL.



## ESD WARNING

(Electrostatic Discharge).

Once properly installed, Ness control panels are well protected from ESD. However, take note of the following precautions during installation.

The human body can generate static electricity when it is insulated from earth - for instance by walking over carpet.

ESD occurs (and a small shock is sometimes felt) if an earthed metal object is then touched.

The installer should be aware that if he generates static electricity while installing the panel and then discharges this static electricity into the internal components on the main D8/D16 circuit board or the keypad board, then ESD damage may occur.

The circuit board should not be unwrapped until it is actually ready to be installed.

Methods to avoid electrostatic build-up.

1. Use a foot strap, a wrist strap, or a grounding mat. The aim is to connect the body to earth to discharge static before it builds up. The connection is a high resistance for personnel safety.
2. If the above is not available, then it is advisable to wear clothing that will minimise the build-up of static.
3. Handle circuit boards by the edges. Avoid touching any components on the board as the integrated circuits, in particular, are not guaranteed by their manufacturers to be safe from ESD.
4. To minimise the build-up of static, avoid walking around as much as possible while working on the installation.
5. Touch an earthed object to discharge any static before working on the installation.

## INSTALLATION PROCEDURES

The main panel housing and keypad/s should be installed within areas that are protected by motion sensors or reed switches. A linen closet or cupboard are good examples as these are generally located in the centre of the premises. Installing in ceiling spaces or other areas where extremes of temperature may be encountered is not advised.

Positioning of the movement detectors should be considered as the incorrect position may cause unwanted alarms. Refer to the motion sensors' installation instructions.

1. Remove the lid and the battery from the base.
2. Securely mount the rear panel housing in a secure location.
3. Run all cabling needed for the installation.
4. Insert the red PCB stand-offs in the housing and then plug the circuit board onto the stand-offs. See the ESD Warning on this page.
5. Wire the sensors, sirens and accessories to the main board terminal blocks as per the wiring instructions in this installation manual.
6. Connect the 3G antenna connector on the PCB and install the antenna outside the panel housing in a location providing the best signal strength as indicated by the keypad signal strength display.
7. Fit the battery into the housing but DO NOT CONNECT the battery yet.
8. Insert the panel tamper bracket leads as shown below.
9. Insert the SIM card
10. Power up as described below.
11. Close the lid and program the panel as required.

## POWER-UP PROCEDURE

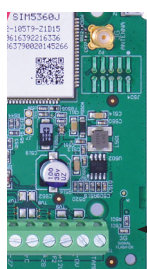
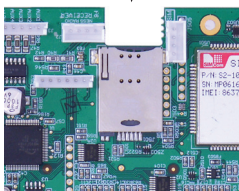
To enter INSTALLER PROGRAM MODE the first time, power-up with the PROG/TAMP link OFF. If the PROG/TAMP link is ON and any other 24hr zones are unsealed on power-up the panel will immediately go into alarm - reset the alarm via keypad or remove power to stop the alarm.

1. **CONNECT THE BATTERY FIRST.** Observe correct polarity.
  - a) The heartbeat LED will flash continuously to indicate correct operation.
  - b) The Current Limiting Globes should be OFF. If the Globes are glowing, the battery connection is reversed. Immediately disconnect the battery and check the polarity of the battery leads.

If the heartbeat LED does not flash steadily or cycles off intermittently there may be a problem with the initialisation of the onboard memory. **To remedy, in Installer Program Mode press P95E, P97E & P98E to erase all programming and reload factory defaults.** Then remove power by briefly removing one of the battery leads then re-connect. The heartbeat LED should now be flashing continuously, proceed to power-up step 2.

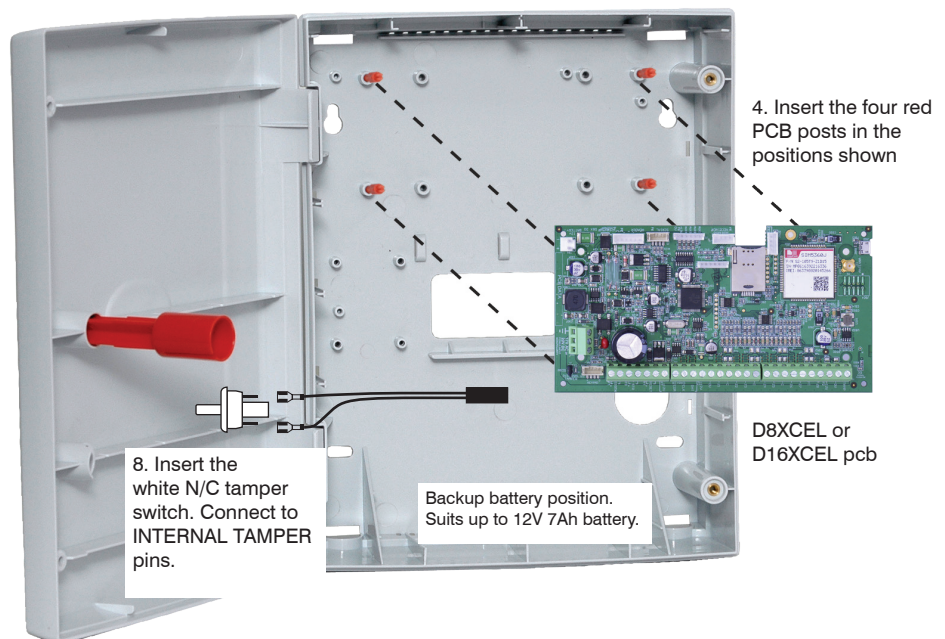
2. **TURN ON THE EXTERNAL POWER SUPPLY.** The Current Limiting Globes may glow slightly to indicate that the battery is charging correctly.

9. Insert your SIM card before powering up the panel. (Standard SIM)



3G SIGNAL LED

LED on steady =  
Connecting to network  
LED Flashing =  
Valid SIM card installed



# INPUTS

## MONITORED ZONES

The Ness D8x and D16x have 8 or 16 fully programmable zone inputs. (Monitored by end of line resistor). Also, 1 x 24 hour External TAMP input. (Monitored by end of line resistor). 1 x 24 hour Box Tamper input. (Normally Closed input. Resistor is not required).

## END OF LINE RESISTOR

Each zone input must be terminated with an end of line (EOL) resistor unless the zone is disabled by option P125E.

The default EOL resistor value is 2.2k (2200 Ohms). The EOL value is fully programmable. Available options are 0k (closed circuit), 1k, 1.5k, 2.2k, 3.3k, 3.9k, 4.7k, 5.6k, 6.8k, 8.2k, 10k, 12k and 22k. See programming option P129E.

## TAMP – TAMPER INPUT

The TAMP input must also be sealed with an end of line resistor. This input is always a 24hr input. The EOL value programed by option p129E also applies to the TAMP input.

## POWER INPUT TERMINALS

These terminals are for the connection of the external power supply. Your panel has a dual 17VAC/20VDC power input. Please use the correct power supply as shown on page 8.

## EARTH (Functional Earth, not a safety Earth)

Connect a good earth to this terminal to help protect against damage from lightning strikes and static.

## BATTERY

These terminals are for the connection of a sealed lead-acid rechargeable 12Volt battery. Charge current is limited to 350mA. The charge voltage is factory preset at 13.8V. Note: A 12 Volt sealed lead acid rechargeable battery must be connected for correct panel operation and to ensure the Siren, Strobe and Reset outputs operate correctly.

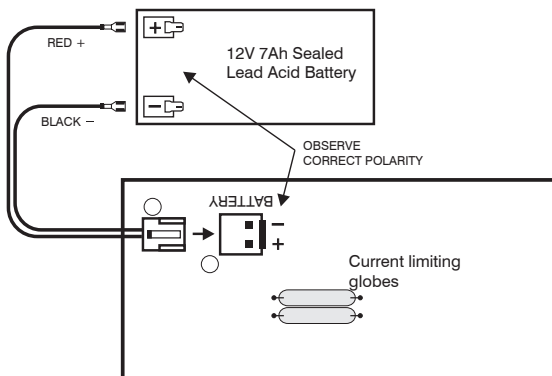
The panel will shut down if battery voltage is below 11V and mains power is off.

Observe correct polarity when connecting the battery.

(Ness Part Number BAT210 12V 7Ah battery)

## CURRENT LIMITING

The current limiting globes serve to regulate battery charging current. When the battery is fully charged the globes will not glow. The globes will glow slightly when recharging the battery after a short power outage. If the globes glow very brightly the battery is drawing excessive current and may be faulty, or the battery is connected in reverse. Check the connections or connect a charged battery.



**OUTPUT FUSING.** The 12V outputs, Siren, Reset and Strobe outputs are protected by Automatic Reset electronic fuses. These outputs will automatically reset once the overload is removed.

# OUTPUTS

## 12 VOLT OUTPUT

A regulated 13.8 VDC output is available to power detectors and other equipment. This output is available from two sets of terminals marked +12V and 0V. This output is protected by an Automatic Reset fuse.

A maximum load of 500mA may be connected to these terminals.

## SIREN

The on-board siren driver will drive a maximum of 3 x 8 ohm horn speakers (Ness Part No. NOI110 or 100-171 Internal Siren). The will reset at the end of siren time (P29E) or whenever the panel is reset, whichever comes first.

This output is protected by an Automatic Reset fuse.

## STR

A latched 12VDC output for connecting strobe lights.

This output will reset after 72 hours (3 days) or when the panel is disarmed. (D8/D16 versions prior to V4.5 allow indefinite strobe operation, until the panel is reset).

A maximum of 2 x 1 Watt Strobes (Ness Part No. NOI300) can be connected to this output.

This output is protected by an Automatic Reset fuse.

## RESET

A 12V DC output for connecting Ness sirens, piezo sirens or relays, etc. This output will reset at the end of siren time (P29E) or whenever the panel is reset, whichever comes first.

A maximum of 3 x 12V piezo screamers (Ness Part No. 100-238, 100-004) or 2 X Ness Piezo (Part No 100-172) can be connected to this output.

This output is protected by an Automatic Reset fuse.

## AUX HEADER

The Aux1 to Aux4 outputs are open collector outputs (switch negative) which can supply a maximum of 100mA. Each Aux output can be programmed to perform several different functions. The header also provides a 12V DC output, max. draw 100mA.

## RS232 SERIAL PORT (4 PIN)

Two way RS232 serial port for interfacing to a PC or external automation products. The serial data is 9600 baud, 8 data bits, no parity, 1 stop bit. Developer's kit available on request.

## PROG/TAMP – PROGRAM LINK & INTERNAL TAMPER INPUT

The PROG/TAMP link appears on the two pin J1 header.

The PROG/TAMP link has two purposes:

- To enter Installer Program Mode on initial power up.** Power-up with the PROG link OFF. The PROG link (or Box Tamper lead) must be ON in operating mode.
- Box Tamper.** When used with the Internal Tamper Lead (supplied), PROG/TAMP serves as the 24hr tamper input for the panel's internal tamper switch.

Replace the PROG Link with the Box Tamper Lead. Connect the Internal Tamper Lead spade terminals directly to the terminals of the internal tamper switch (supplied). An end-of-line resistor is NOT required on this input.

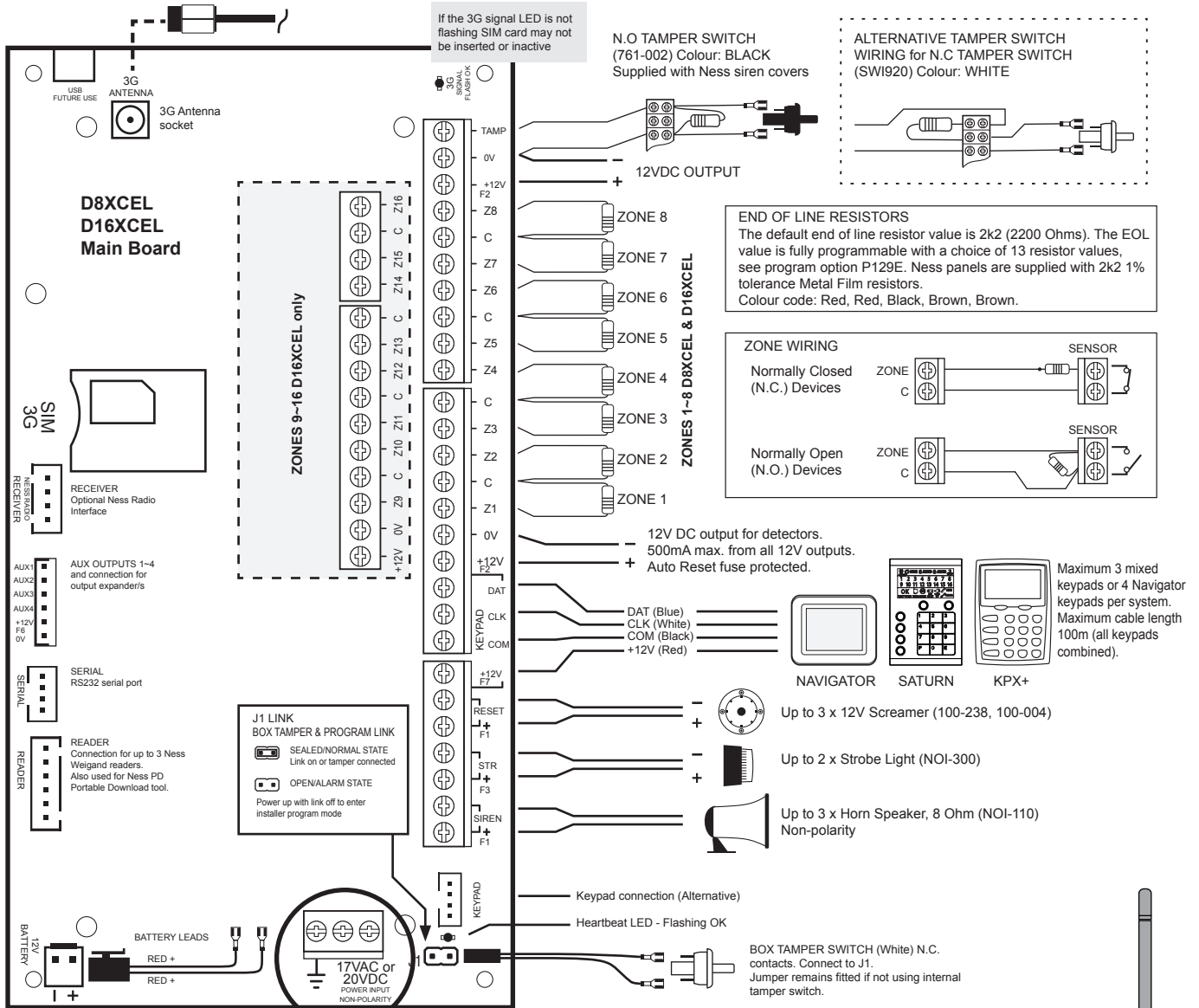
When PROG/TAMP is used for Internal Tamper, powering up with the panel's cover open will enter Installer Program Mode.

**SIREN LOAD.** A maximum output of 2.0A continuous is available from the SIREN and RESET outputs and 200mA from the STR output.

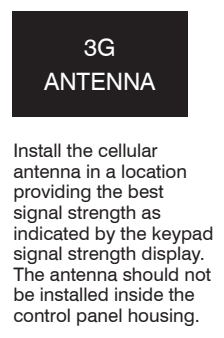
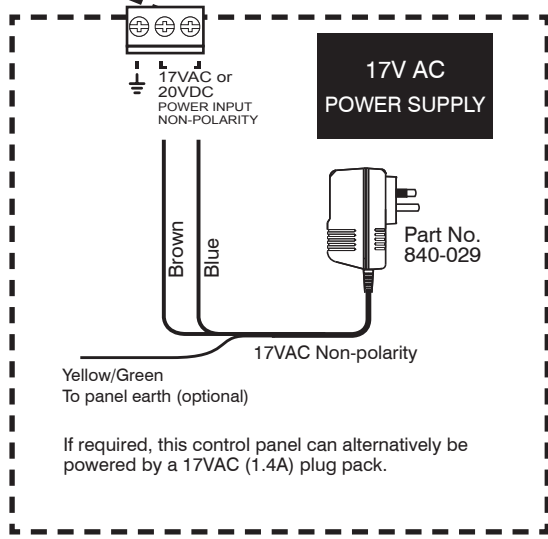
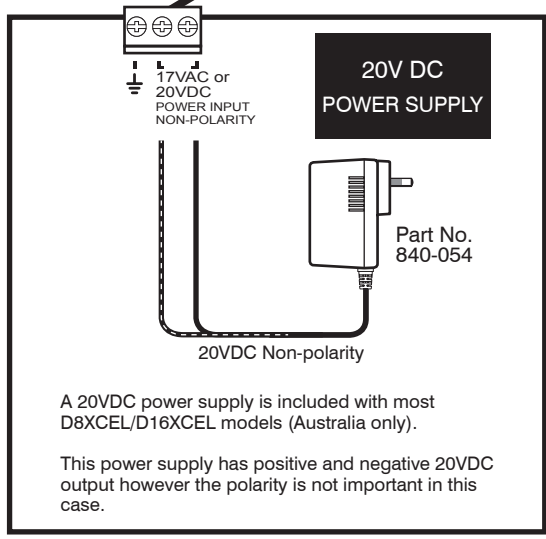
Recommended maximum power load:

- 3 x Horn speakers (SIREN output)
- 2 x Strobe lights (STR output)
- 2 x Ness Internal Sirens (100-172) (RESET output)

**Note:** (This assumes no more than 500mA is being drawn from the 12V device outputs).

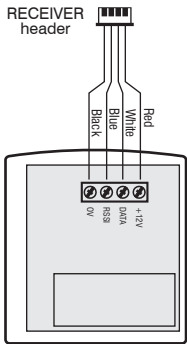


### DUAL VOLTAGE POWER INPUT 20VDC or 17VAC



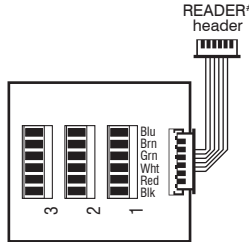


## Optional Accessories for D8 & D16

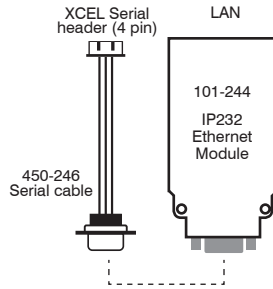


100-200  
**Ness Radio Interface.**

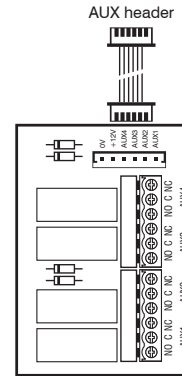
\*The Weigand Interface and Ness PD both connect to the READER header. Weigand Interface may be temporarily disconnected to use the Ness PD.



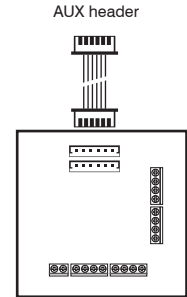
106-012 **Weigand Interface.**  
Provides connection for up to 3 addressable Weigand Readers (Ness 101-014). See page 82.



K-6002D  
**Internet interface kit.**  
Provides internet connectivity for use with third party apps such as iComms & aComms.



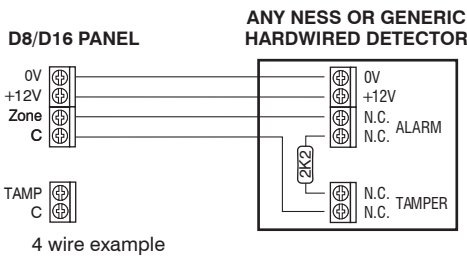
106-013 **Relay Board.**  
Provides 4 relay outputs suitable for switching low voltage accessories.



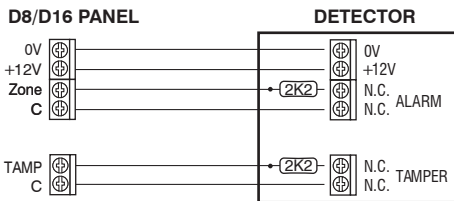
100-699 **Output Expander.**  
Provides 16 programmable open collector outputs. See page 59.

The Relay Board and the Output Expander Board connect to the Aux header but not at the same time.

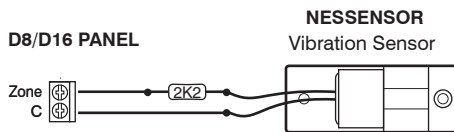
## Generic Detector Wiring Examples



4 wire example

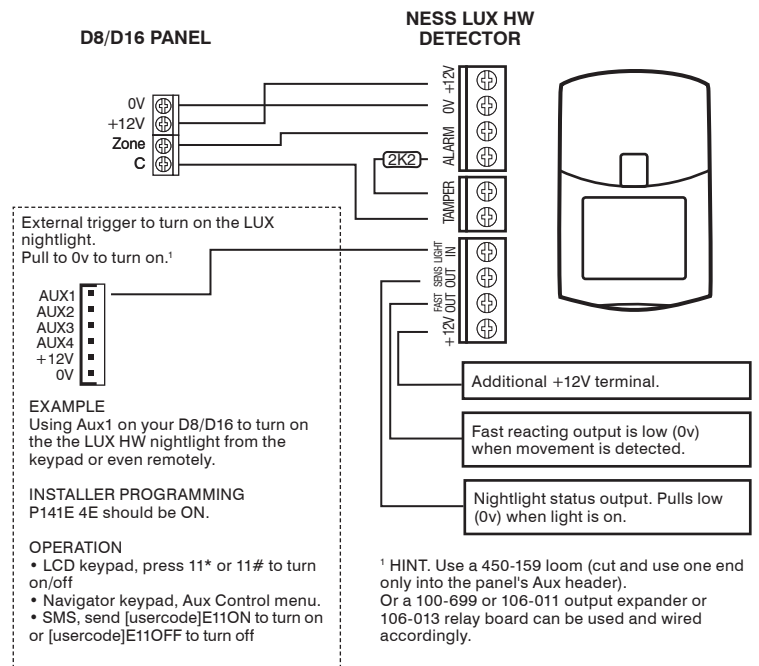


6 wire example with 24hr Tamper

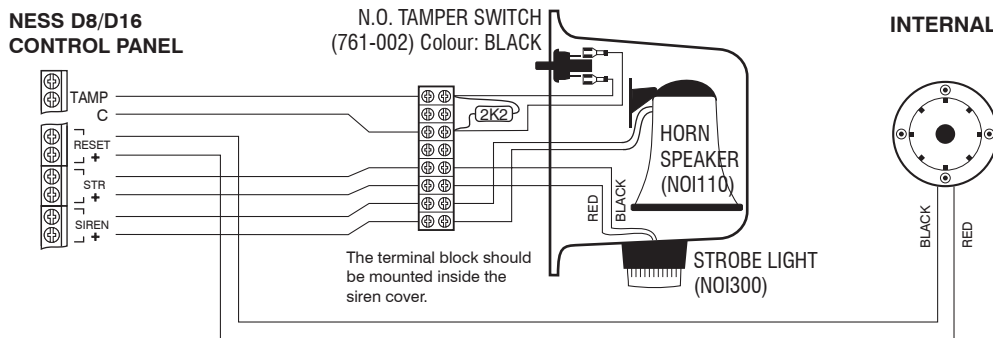


See P30E--P36E Zone Vibration Sensitivity, page 26

## LUX HW Detector Wiring



## Siren Wiring Examples



# KPX+ AND SATURN LCD KEYPAD

## KEYPAD DISPLAY INDICATORS IN OPERATING MODE

DISPLAY	OFF	ON	FLASHING
ZONES 1-8 (or 1-16)	Zone is sealed.	Zone is unsealed.	Zone is in alarm.
<b>OK</b> TO ARM	Zone/s are unsealed OR Power fault OR Panel is armed	Ready to Arm	
<b>ARMED</b>	Panel is disarmed, or Area 1 is disarmed, if using Areas.	Panel is armed, or Area 1 is armed, if using Areas.	
<b>ARMED</b>	Area 2 is disarmed.	Area 2 is armed if using Areas.	
<b>HOME</b>	Home Mode is disarmed.	Panel is armed in Home Mode.	Day Mode enabled, (see page 29).
<b>MEM</b>	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.
<b>TAMPER</b>	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	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.  The <b>CELL</b> icon indicates various cellular conditions. <ol style="list-style-type: none"> <li><b>CELL</b> with flashing signal strength  indicates the dialler is in use.</li> <li><b>no</b> with flashing <b>CELL</b> indicates a cellular dialler fault.</li> <li><b>CELL</b> with flashing  indicates 'no SIM' Card is fitted.</li> </ol>		
TIME	Real time clock display - alternates with cellular signal strength status.*		
PROG	Normal.	User Program Mode.	Installer Program Mode.

## KEYPAD BEEPS


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

## KEYPAD DISPLAY INDICATORS IN MEMORY MODE

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

\* 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.

# KPX+ LCD KEYPAD



**Panic Alarm**  
Press and hold the two emergency keys together for PANIC alarm.  
See P126E 1E to enable. See P75E 3E, P191E 3E to enable panic alarm reporting

**Fire Alarm**  
Press and hold the two **FIRE** (1 & 3) keys together for FIRE alarm.  
See P126E 2E to enable keys. See P75E 4E, P191E 4E to enable fire alarm reporting.

**Medical Alarm**  
Press the two Medical (4 & 6) keys together for Medical alarm.  
See P126E 3E to enable keys. See P75E 2E, P191E 2E to enable medical alarm reporting.




**Adjust Key Beep Volume**  
Press and hold the **P** key. Release when the desired volume is reached.  
The volume level is displayed on the LCD during adjustment.

**Adjust Chime Volume**  
Press and hold the **0** key. Release when the desired volume is reached.  
The volume level is displayed on the LCD during adjustment.

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

**Display Test**  
To display all available LCD icons press and hold the **E** key.  
Display Test can be used in any mode.

The **CELL** icon indicates various cellular conditions.

- CELL** with flashing signal strength  indicates the dialler is in use.
-  with flashing **CELL** indicates a cellular dialler fault.
- CELL** with flashing  indicates 'no SIM' Card is fitted.

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

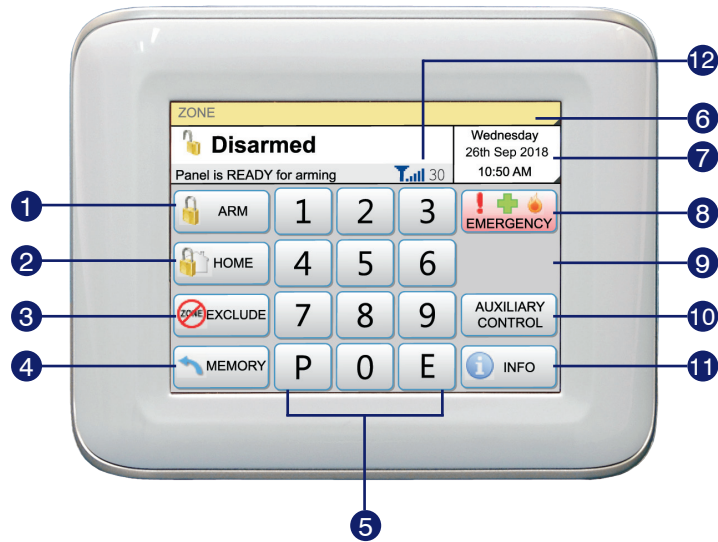
# SATURN LCD KEYPAD

All the key functions described above also apply to Saturn keypads.



Note that some Saturn keypad models do not have CELLULAR signal and real time clock display. Operational functions are unaffected, however it's recommended that at least one KPX+ keypad be installed to provide cellular signal indication.

# NAVIGATOR TOUCH SCREEN KEYPAD



- 1 Touch to arm the system.
- 2 Touch to arm Home Mode.
- 3 Touch to Exclude zones.
- 4 Touch to view the event memory.
- 5 Numeric keypad.
- 6 Touch to view the full zone list.
- 7 Touch here to view the calendar.  
This area also displays System Alarms.
- 8 Touch to activate the Emergency Alarms.
- 9 This area displays current Emergency Alarms.
- 10 Touch to control the Auxiliary Outputs.
- 11 Touch to display the information screens.
- 12 Cellular signal strength display

ZONE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

The Zone Status Bar displays the zone numbers of unsealed zones.

ZONE 1 - Front Door

If only one zone is unsealed its description will also be displayed.

ZONE 1 - Front Door

Zones which are currently in the alarmed state are displayed in flashing red text.

6

Zone numbers and descriptions.

Unsealed zones show a red indicator.

Zone List	
1 - Front Door	9 - Living Room
2 - Side Door	10 - Dining Room
3 - Back Door	11 - Rompus Room
4 - Front Window	12 - Kitchen
5 - Side Window	13 - Hall
6 - Back Window	14 - Study
7 - Bedroom	15 - Bathroom
8 - Lounge Room	16 - Laundry

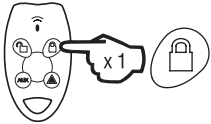

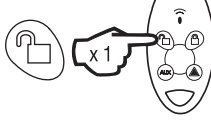

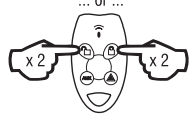
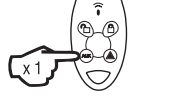
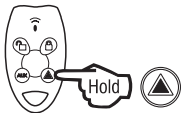
Zone names can be edited in program mode.

Zone names can be customised by SMS.

The Zone List display will show 8 zones for D8XCEL and 16 zones for D16XCEL.

Touch to close the window.

# OPERATION SUMMARY

OPERATION	by <b>KEYPADS &amp; SMS</b>	by <b>RADIO KEY</b>	by <b>ACCESS CARD or FOB</b>
<b>to ARM</b> The panel must initially be disarmed.	<b>ALL KEYPADS</b> 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 <b>SMS</b> A[UserCode]E	 Press the ON button once.	 Present a Card or Fob twice. (if P301E 2E is on). Or, present a Card or Fob once + press button. (if P301E 3E is on).
<b>to DISARM</b> To disarm and/or reset alarms.	<b>ALL KEYPADS</b> [UserCode] + E <b>SMS</b> [UserCode]E	 Press the OFF button once.*	 Present a Card or Fob once. (if P301E 4E is on).
<b>to arm HOME MODE</b> Area1 must initially be disarmed. Home Mode can be used if the panel is fully disarmed or if only Area2 is armed, see page 29 for more information.	<b>ALL KEYPADS</b> HOME + E (If the Home Shortcut is enabled, P62E 3E) or HOME + [UserCode] + E <b>SMS</b> H[UserCode]E	 ... or ...  Press either the OFF button or the ON button twice within 4 seconds. (P69E 5E must be on). Or press the AUX button once. (If P120E 3E is on). RK4 radio key only. Radio Key Home Arm chirps can be enabled by P120E 2E. Radio Key Home Arm strobe flash can be enabled by P64E 6E, (off by default).	Present a Card or Fob once. (if P301E 4E is on).
<b>PANIC alarm</b>	<b>KPX/SATURN</b> * + # together or * + [UserCode] + E or * + E (If Keypad Panic Shortcut is enabled, P62E 4E) <b>NAVIGATOR</b> press EMERGENCY then press PANIC <b>SMS</b> S[UserCode]E	 Press and hold the PANIC button for at least 4 seconds. If P68E 1E Double Press Radio Panic is enabled, press and hold twice for 4 sec.	Press and hold the PANIC button for at least 4 seconds. If P68E 1E Double Press Radio Panic is enabled, press and hold twice for 4 sec.
<b>FIRE alarm</b> <b>MEDICAL alarm</b>	FIRE Alarm <b>KPX/SATURN</b> 1 & 3 together <b>NAVIGATOR</b> press EMERGENCY then press FIRE MEDICAL Alarm <b>KPX/SATURN</b> 4 & 6 together <b>NAVIGATOR</b> press EMERGENCY then press MEDICAL NOTES The FIRE alarm sounds the siren using the FIRE siren sound and sends a fire report if programmed. The MEDICAL alarm triggers the strobe light if programmed and sends a medical report if programmed. Related options for Fire and Medical P75E, P77E, P191E, P193E, P161E, P126E 2E 3E, P69E 1E		
<b>KEYPAD DUESS</b> Keypad Duress allows the user to send a silent duress report while disarming, (if the system is being monitored by a central station).	<b>ALL KEYPADS</b> [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 sends a Duress report by dialler to the central station. This is a silent alarm with no indication at the keypad/s. (Report Keypad Duress must be enabled, P75E 1E)		
<b>EXCLUDE ZONES</b> EXCLUDE + E can only be used when the panel is disarmed. EXCLUDE + CODE + E can be used anytime.	<b>ALL KEYPADS</b> EXCLUDE + E (If the Exclude Shortcut is enabled, P62E 2E) then <b>KPX/SATURN</b> [ZoneNumber] + E [ZoneNumber] + E (Enter the zone number/s to be excluded.) <b>NAVIGATOR</b> [SelectZones] then <b>KPX/SATURN</b> press E to exit Exclude mode or <b>NAVIGATOR</b> press X to exit. The Exclude icon flashes constantly while zones are excluded. Excluded zones are automatically included on disarming.		
<b>OPERATE AUX OUTPUTS</b> The AUX outputs must be enabled for operation by keypad. See P141E 4E, P142E 4E, P143E 4E, P144E 4E.	<b>KPX/SATURN</b> [AuxNumber] + * + # to turn ON or PULSE an output. [AuxNumber] + # to turn off. <b>NAVIGATOR</b> press AUXILIARY CONTROL press AUX outputs on/off. <b>SMS</b> [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.) More information next page.		

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



# OPERATION BY SMS



Operation by SMS messaging uses simple abbreviations for common commands as per the table on this page.

## SUMMARY OF SMS COMMANDS

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

### SMS COMMANDS

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

<sup>1</sup> See page 17 for detail

<sup>2</sup> See page 21-22 for detail

OPERATION	SMS TO THE PANEL	SMS REPLY
ARM	A123E	A123E ACK
DISARM	123E	123E ACK
HOME mode	H123E	H123E ACK
EXCLUDE zones (Example zones 4 & 5)	X123E4E5E	X123E ACK 4E ACK 5E ACK E ACK
View MEMORY (Specify the number of events to read, eg, last 3 events, most recent first)	M123E 3E	Event memory report Area 1 Close User 1 Thu 6 Sep 2018 4:01pm Radio Detector Low Battery Zone 5 Thu 6 Sep 2018 4:05pm Area 1 Open User 1 Thu 6 Sep 2018 4:15pm
FIRE alarm <sup>1</sup> (Triggers the Fire Alarm, if enabled)	F123E	F123E ACK
MEDICAL alarm <sup>2</sup> (Triggers the Medical Alarm, if enabled)	D123E	D123E ACK
PANIC alarm <sup>3</sup> (Triggers the Panic Alarm, if enabled)	S123E	S123E ACK
Turn ON AUX 1	123E11ON	123E ACK 11* ACK
Turn OFF AUX 1	123E11OFF	123E ACK 11# ACK
Turn ON AUX 2	123E22ON	123E ACK 22* ACK
Turn OFF AUX 2	123E22OFF	123E ACK 22# ACK
Same procedure for all eight Aux outputs.		

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

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

<sup>3</sup> The PANIC alarm sounds the sirens and strobe if programmed.

Related options for Fire and Medical P75E, P77E, P191E, P193E, P161E, P126E 2E 3E, P69E 1E

Related options for Panic P61E 5E-8E

## FACTORY DEFAULTS

Master Code: 123  
Installer Code: 000000



## USER PROGRAM MODE

User Program Mode allows the owner to program:

- All User Codes
- Entry Exit Times
- Follow Me Telephone number
- Real Time Clock settings

Note: The panel will automatically drop out of User Program Mode to Operating Mode if no keypad buttons are pressed for 4 minutes.



## HOW TO ENTER PROGRAM MODE

### METHOD 1.

#### FIRST TIME PROGRAMMING – FROM POWER UP

1. Power-up with the J1 PROG/TAMP link OFF.  
Replace the PROG/TAMP link (or Box Tamper lead) after programming. The link must be on in normal operating mode.

### METHOD 2.

#### USING ANY KEYPAD TO ENTER PROGRAM MODE

The panel must be Disarmed.

1. Press P + [MasterCode] + E  
This is User Program Mode (PROG icon is ON).  
Various user options can be programmed in this mode.
2. Press P + E  
This is Installer Program Mode (PROG icon is FLASHING).  
All program options can be programmed in this mode.

## INSTALLER PROGRAM MODE

Installer Program Mode allows access to ALL program options.

**NOTE 1.** NessComms Direct Connect via the serial port requires the panel to be in Installer Program Mode.

**NOTE 2.** The panel will remain in Installer Program Mode until P + E is entered by keypad.

### INSTALLER'S POWER TIP

All inputs are disabled while the panel is in Installer Program Mode. This handy feature allows you to work on the system without triggering 24 hour zones such as tamper inputs.

## HOW TO EXIT PROGRAM MODE

Press P + E

Exits directly to Operating Mode (PROG icon is OFF).

## SPECIAL FUNCTIONS IN PROGRAM MODE

SPECIAL FUNCTION	PROGRAM MODE	KEYPRESS
<b>SEND DIALLER TEST REPORT</b> Send a Dialler Test Report to the telephone number programmed at P170E.	USER	P 66666666 E ( <i>eight 6's</i> )
<b>SIREN TEST</b> Turn the Siren, Reset and Strobe Outputs On. Pressing P E will stop the Siren Test (and also exits Program Mode).	USER or INSTALLER	P 77777777 E ( <i>eight 7's</i> )
<b>PANEL RESET</b> This function resets the microprocessor. The effect is the same as powering down and powering up again. <b>INSTALLER'S TIP:</b> Use P88888888E prior to powering down for a short time. This will save the current Time Before Next Test Call and the Real Time Clock into permanent memory. On power up these times will be restored.	USER or INSTALLER	P 88888888 E ( <i>eight 8's</i> )
<b>DISPLAY SOFTWARE VERSION</b> This function displays the panel software version when in program mode. Displayed in decimal format by the zone LEDs. Example, version V6.1 is displayed by flashing 6 followed by 1.	USER or INSTALLER	P 99999999 E ( <i>eight 9's</i> )

# PROGRAMMING

## Quick Start Programming Guide

Use one of these Quick Start programming summaries for fast setup of your control panel with typical Local, SMS Monitored or Central Station Monitored options.

### QUICK START 1 - LOCAL SYSTEM, SIMPLY PROGRAM A USER CODE

STEP	KPX+ or SATURN KP	DESCRIPTION	COMMENT
1	P 1 2 3 E	Enters User Program Mode.	PROG icon will turn on. (Default User Code is 123).
2	P 2 0 1 E	Selects the option for User Code 1.	The existing code will be displayed.
3	____ E	Enter your new PIN code followed by E.	Keypad codes can be 3 to 6 digits in length.
4	____ E	Enter your new PIN code again.	The new code will be displayed.
5	P E	To exit program mode.	PROG icon will turn off.

### QUICK START 2 - SMS SELF-MONITORING

STEP	KPX+ or SATURN KP	DESCRIPTION	COMMENT
1	P 1 2 3 E	Enters User Program Mode.	PROG icon will turn on. (Default User Code is 123).
2	P 0 0 0 0 0 0 E	Enters Installer Program Mode.	PROG icon will flash. (Default Installer Code is 000000).
3	P 2 0 1 E	Selects the option for User Code 1.	The existing code will be displayed.
4	____ E	Enter your new PIN code followed by E.	Keypad codes can be 3 to 6 digits in length.
5	____ E	Enter your new PIN code again.	The new code will be displayed.
6	P 1 8 0 E	Enter a mobile phone number followed by E	This mobile phone number will receive alarm reports, if enabled. Up to 10 mobile numbers can be programmed, see P180E to P189E. See P190E to P194E to enable/disable various SMS alarm reports.
7	P E	To exit program mode.	PROG icon will turn off.

### QUICK START 3 - CENTRAL STATION MONITORING

STEP	KPX+ or SATURN KP	DESCRIPTION	COMMENT
1	P 1 2 3 E	Enters User Program Mode.	PROG icon will turn on. (Default User Code is 123).
2	P 0 0 0 0 0 0 E	Enters Installer Program Mode.	PROG icon will flash. (Default Installer Code is 000000).
3	P 2 0 1 E	Selects the option for User Code 1.	The existing code will be displayed.
4	____ E	Enter your new PIN code followed by E.	Keypad codes can be 3 to 6 digits in length.
5	____ E	Enter your new PIN code again.	The new code will be displayed.
6	P 1 7 0 E	Selects the option for CID Phone No 1.	
7	_____ E	Enter the central station telephone number followed by E	30 digits maximum.
8	P 7 2 E	Selects the option for Account No 1.	
9	____ E	Enter the Account number followed by E	4 digits maximum. The account number is supplied by your central monitoring station.
10	P E	To exit program mode.	PROG icon will turn off.

PROGRAMMING BY SMS



SMS commands are extremely flexible in their format.

**MULTIPLE COMMANDS**

You can send multiple programming commands in one text message - in fact the message can be as long as the SMS limit of 160 characters per single message. See the Installer Manual for detailed instructions.

**USE OF SPACES**

The panel automatically ignores spaces in most SMS commands. However, spaces are important in Text Output commands, see page 21.

**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.

**But BEWARE OF COMMAS**

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

**SMS REPLIES**

The panel replies to each programming command with a confirmation message.

**ACK (Acknowledged)**

ACK is the panel saying 'Command received and applied'.

**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.

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

The NESS XCEL free app is also available for easy operation for users and fast programming by installers.

This section covers programming by direct SMS messaging from a mobile phone if not using NESS XCEL app.

**SMS PROGRAMMING COMMANDS**

PROGRAMMING BY SMS FROM ANY 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

<b>EXAMPLE 1</b> Program the Entry Delay time to be 15 seconds	
<b>SMS SENT TO THE PANEL</b>	<b>SMS REPLY</b>
<p>P123E P26E 15E</p> <p>Entry Delay can be programmed in User Program Mode so the installer code is not required. This command is ok to send without spaces, ie. P123EP26E15E will also work.</p>	<p>M123E ACK M26E ACK 15E ACK ME ACK</p>

The command comprises of three parts, where...

<b>P123E</b>	<b>P26E</b>	<b>15E</b>
Enters user program mode. 123 in this case is the Master code.	The option number for Entry Delay	Programs Entry Delay to be 15 seconds

<b>EXAMPLE 2</b> Program User Code 2 to be 5678.	
<b>SMS SENT TO THE PANEL</b>	<b>SMS REPLY</b>
<p>P123E P202E 5678E 5678E</p> <p>User Codes can be programmed in User Program Mode so the installer code is not required.</p>	<p>M123E ACK M202E ACK 5678E ACK 5678E ACK ME ACK</p>

<b>EXAMPLE 3</b> Sending multiple commands. For example, to program all these changes in one message. User code 6 change to 3456 Entry Delay change to 20 seconds Exit Delay change to 50 seconds Siren Time change to 3 minutes Zone 2 change to an entry delay zone	
<b>SMS SENT TO THE PANEL</b>	<b>SMS REPLY</b>
<p>P123E P000000E P206E 3456E 3456E P26E 20E P28E 50E P29E 3E P41E 2E</p> <p>This command requires both the master Code and Installer Code to be included.</p>	<p>M123E ACK M000000E ACK M206E ACK 3456E ACK 3456E ACK M26E ACK 20E ACK M28E ACK 50E ACK M29E ACK 3E ACK M41E ACK 2E ACK ME ACK</p>

## CENTRAL STATION MONITORING



D8XCEL  
D16XCEL



CENTRAL  
MONITORING  
STATION

Ness D8XCEL and D16XCEL series control panels have an on-board 3G dialler for communicating alarm messages to a central monitoring station or to a smartphone by SMS messaging.

The digital messages can include information about the zone/s 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.

Installers are welcome to contact Ness for further information about monitoring.

The panel reports alarms to the Central Station using Contact ID dialler format.

The message format is fixed as shown in the Contact ID Codes Table.

The message takes the form of:

<b>SSSS</b>	Account Number
<b>Q</b>	Event qualifier 1 = New Event or Open 3 = Restore or Close
<b>XYZ</b>	Alarm type
<b>GG</b>	Group or Area designation
<b>CCC</b>	Alarm number dd = User ID (1 to 56) zz = Zone ID (1 to 16) aa = 01 Area 1 aa = 02 Area 2 aa = 01 Monitor area aa = 00 24 Hr Area K = Checksum (0 to 0f hex)

### CONTACT ID REPORTS TABLE

REPORT NAME	SSSS	Q	XYZ	GG	CCC	SUFFIX
Zone 1– Zone 16 Alarm	ssss 18	q	<b>130</b>	aa	001–016	k
Duress	ssss 18	1	<b>121</b>	01	030	k
Keyswitch Panic	ssss 18	1	<b>120</b>	01	031	k
Keypad Panic	ssss 18	1	<b>120</b>	01	032	k
Radio Key Panic	ssss 18	1	<b>120</b>	01	1dd	k
Medical Alarm	ssss 18	1	<b>100</b>	01	033	k
Fire	ssss 18	1	<b>110</b>	01	034	k
Exit Install mode	ssss 18	1	<b>306</b>	01	035	k
External Tamper	ssss 18	q	<b>137</b>	01	040	k
Internal Tamper	ssss 18	q	<b>137</b>	01	041	k
Keypad Tamper	ssss 18	q	<b>137</b>	01	042	k
Radio Sensor Supervision	ssss 18	q	<b>381</b>	01	4zz	k
Radio Sensor Tamper	ssss 18	q	<b>383</b>	01	2zz	k
Radio Sensor Low Battery	ssss 18	q	<b>384</b>	01	3zz	k
Mains Fail	ssss 18	q	<b>301</b>	01	050	k
Panel Battery Fail	ssss 18	q	<b>309</b>	01	051	k
Open (Disarm)	ssss 18	1	<b>402</b>	aa	0dd	k
Force Open (Cancel)	ssss 18	1	<b>406</b>	aa	0dd	k
Close (Arm)	ssss 18	3	<b>402</b>	aa	0dd	k
Closing Extended	ssss 18	3	<b>464</b>	aa	0dd	k
Test Report	ssss 18	1	<b>602</b>	01	063	k
Zone 1-16 Manual Exclude	ssss 18	q	<b>573</b>	aa	001-016	k
Zone 1-16 Auto Exclude	ssss 18	q	<b>380</b>	aa	001-016	k

### SPECIAL ARMING/DISARMING REPORTS BY USER

REPORT NAME	User ID	REPORT NAME	User ID
Arm/Disarm by Keyswitch	57	Arm/Disarm by AutoTimer 4	94
Shortcut Arm	58	Arm/Disarm by AutoTimer 5	95
Arm/Disarm by AutoTimer 1	91	Arm/Disarm by AutoTimer 6	96
Arm/Disarm by AutoTimer 2	92	Arm/Disarm by AutoTimer 7	97
Arm/Disarm by AutoTimer 3	93	Arm/Disarm by AutoTimer 8	98





Powerful SMS accessibility includes the ability to arm and disarm, program the control panel, check system status, read alarm memory, receive alarm messages and operate AUX outputs all by SMS/TXT messaging.

SMS 'Self-monitoring' reports include Arm/disarm reports by Area and User, Zone alarms and Restorals, System Alarms such as AC Fail and Low Battery, Panic and Duress alarms.

**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.**

### 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 21.

**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 21

**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

#### Example 2 - Area 1 was Armed by User 1

```
NESS security report
from MYPANEL
ARMED USER 1 AREA 1
Tue 7 Aug 2018 4:57:54pm 1/1
```

Arm/disarm reports by SMS can be enabled/disabled by option P194E 1E 2E, page 54

#### Example 3 - Mains Fail report

```
NESS security report
from MYPANEL
POWER FAILURE POWER
MAIN 12V
Tue 7 Aug 2018 5:30:00pm 1/1
```

Mains Fail reports by SMS can be enabled/disabled by option P191E 14E, page 50



Message Format.

i [Master Code] E [Command]

NOTES

Status requests can be made at any time including when the panel is armed, disarmed or in program mode.

REQUEST PANEL STATUS BY SMS

D8XCEL and D16XCEL panel status can be interrogated by SMS. Check the sealed/unsealed status of zones, check miscellaneous alarm status and check if the system is armed, all by SMS messaging and reply.

Request Status Commands Example.

SMS SENT TO THE PANEL	SMS REPLY
<p><b>i123E ZU</b></p> <p>To request zones unsealed.</p>	<p>status report zones unsealed ZONE 3 ZONE 4 Tues 18 Sep 2018 10:11 1/1</p> <p>In this example, zones 3 and 4 are unsealed, followed by the date stamp and message number (1 of 1)</p>

Description	SMS COMMAND	Status update																
Zone Input Unsealed	ZU	LIST Zones 1-16																
Zone in Alarm	ZA	LIST Zones 1-16																
Zone Excluded	ZX	LIST Zones 1-16																
Zone Supervision Fail	ZS	LIST Zones 1-16																
Zone Doors Open (Wireless Reeds)	ZD	LIST Zones 1-16 wireless reed switch unsealed																
Zone Detector Low Battery (Wireless PIRs)	ZB	LIST Zones 1-16 wireless PIR low battery																
Zone Detector Tamper (Wireless PIRs)	ZT	LIST Zones 1-16 wireless device tamper alarm																
Miscellaneous Alarms	MISC	<p>List one or more miscellaneous alarm:</p> <table border="1"> <tr><td>Duress</td><td>Panel Tamper</td></tr> <tr><td>Panic</td><td>Keypad Tamper</td></tr> <tr><td>Medical</td><td>Pendant Panic</td></tr> <tr><td>Fire</td><td>Panel Battery Low</td></tr> <tr><td>Instal End</td><td>Mains Fail</td></tr> <tr><td>Ext Tamper</td><td></td></tr> </table>	Duress	Panel Tamper	Panic	Keypad Tamper	Medical	Pendant Panic	Fire	Panel Battery Low	Instal End	Mains Fail	Ext Tamper					
Duress	Panel Tamper																	
Panic	Keypad Tamper																	
Medical	Pendant Panic																	
Fire	Panel Battery Low																	
Instal End	Mains Fail																	
Ext Tamper																		
Status of armed conditions	ARM	<p>List one or more armed status:</p> <table border="1"> <tr><td>Area 1 Armed</td><td>Entry Delay 1 ON</td></tr> <tr><td>Area 2 Armed</td><td>Entry Delay 2 ON</td></tr> <tr><td>Area 1 Fully Armed</td><td>Manual Exclude Mode</td></tr> <tr><td>Area 2 Fully Armed</td><td>Memory Mode</td></tr> <tr><td>Home Armed</td><td>Day Zone Select</td></tr> <tr><td>Day Mode Armed</td><td></td></tr> </table>	Area 1 Armed	Entry Delay 1 ON	Area 2 Armed	Entry Delay 2 ON	Area 1 Fully Armed	Manual Exclude Mode	Area 2 Fully Armed	Memory Mode	Home Armed	Day Zone Select	Day Mode Armed					
Area 1 Armed	Entry Delay 1 ON																	
Area 2 Armed	Entry Delay 2 ON																	
Area 1 Fully Armed	Manual Exclude Mode																	
Area 2 Fully Armed	Memory Mode																	
Home Armed	Day Zone Select																	
Day Mode Armed																		
Status of outputs	OUTPUT	<p>List the status of various outputs:</p> <table border="1"> <tr><td>Siren Loud</td><td>Aux1</td></tr> <tr><td>Siren Soft</td><td>Aux2</td></tr> <tr><td>Siren Soft Home</td><td>Aux3</td></tr> <tr><td>Siren Fire</td><td>Aux4</td></tr> <tr><td>Strobe</td><td>Home Out</td></tr> <tr><td>Reset</td><td>Power Fail</td></tr> <tr><td>Sonalert</td><td>Panel Batt Fail</td></tr> <tr><td>Keypad Display Enable</td><td>Tamper Xpand</td></tr> </table>	Siren Loud	Aux1	Siren Soft	Aux2	Siren Soft Home	Aux3	Siren Fire	Aux4	Strobe	Home Out	Reset	Power Fail	Sonalert	Panel Batt Fail	Keypad Display Enable	Tamper Xpand
Siren Loud	Aux1																	
Siren Soft	Aux2																	
Siren Soft Home	Aux3																	
Siren Fire	Aux4																	
Strobe	Home Out																	
Reset	Power Fail																	
Sonalert	Panel Batt Fail																	
Keypad Display Enable	Tamper Xpand																	
Panel firmware version	MOD	Lists the panel's model and firmware version																
Status of auxiliary outputs	AUX	Lists the status of Auxiliary outputs 1 to 8. If the Aux outputs have been renamed they will be listed accordingly.																



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 22).

To rename LOCATION and ZONE 3:

Message Format.

T [Master Code]E,NAME,RENAME

NOTES

Beware of spaces in this command.

Do not insert any spaces before a command name.

For example, if renaming Location...

This is ok T123E,LOCATION,My House

The space between My and House is ok but avoid any other spaces.

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

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 the following page.

DELETING A WORD

Text output words can be also be deleted and therefore omitted from the SMS message.

For example to delete the word 'FROM' insert a space followed by a comma in place of the word.

SMS SENT TO THE PANEL	SMS REPLY
T123E,FROM, ,	text report changes made FROM, 1/1

SMS alarm reports will then appear as:

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

## SMS - TEXT OUTPUT TABLE

Default NAME	RENAME
1st NAME	
24 HR	
ACCESS	
ACK	
ALARM	
ALARM REPORT	
ALARM RESTORE	
AREA 1	
AREA 2	
ARMED AWAY	
ARMED DAY	
ARMED HOME	
ARMING DELAYED	
Ask	
AUTO ARM DELAY	
AUTO EXCLUDE	
AUTO INCLUDE	
AUX 1	
AUX 2	
AUX 3	
AUX 4	
AUX 5	
AUX 6	
AUX 7	
AUX 8	
BATTERY	
BATTERY FAILURE	
BATTERY NORMAL	
CLOCK AND DATE	
UPDATE	
DAY	
DIALLER	
DISARMED	
DOOR 1	
DOOR 2	
DOOR 3	
DOOR OPEN TOO LONG	
DURESS	
EMERGENCY	
EMERGENCY REPORT	
END	
EXIT DELAY	
EXTERNAL	
FAILURE	
FIRE	
FIRE SIREN	
from	
FROM	
from PENDANT	
HOME	
INSTALLER	
INSTALLER ADDRESS 1	

Default NAME	RENAME
INSTALLER ADDRESS 2	
INSTALLER ADDRESS 3	
INSTALLER ADDRESS 4	
INSTALLER COMPANY 1	
INSTALLER COMPANY 2	
INSTALLER EMAIL 1	
INSTALLER EMAIL 2	
INSTALLER MOBILE 1	
INSTALLER MOBILE 2	
INSTALLER NAME 1	
INSTALLER NAME 2	
INSTALLER TEL NO 1	
INSTALLER TEL NO 2	
INTERNAL	
KEYPAD	
KEYPAD DISPLAY	
ENABLE	
KEYSWITCH	
LOCATION	
MAIN 12V	
MAIN UNIT	
MANUAL EXCLUDE	
MANUAL INCLUDE	
MEDICAL	
NAK	
NESS	
NO AREA	
NORMAL	
OUTPUT OFF	
OUTPUT ON	
PANIC	
PENDANT	
POWER	
POWER FAILURE	
POWER NORMAL	
RADIO DETECTOR	
REAL TIME CLOCK	
REPORT FAILURE	
REPORT NORMAL	
RESET	
SEALED	
SECURITY REPORT	
SECURITY SYSTEM	
SHORT ARM	
SIREN	
SOFT MONITOR	
SOFT SIREN	
SONALERT	
START	
STROBE	
SUPERVISE	
SUPERVISION FAILURE	

Default NAME	RENAME
SUPERVISION NORMAL	
TAMPER	
TAMPER NORMAL	
TAMPER UNSEALED	
TEXT CHANGES	
UNSEALED	
USER	
USER 1	
USER 2	
USER 3	
USER 4	
USER 5	
USER 6	
USER 7	
USER 8	
USER 9	
USER 10	
USER 11 ... to USER 49	
USER 50	
USER 51	
USER 52	
USER 53	
USER 54	
USER 55	
USER 56	
WARNING REPORT	
ZONE	
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	

## P101E – P116E

## P201E – P256E

### PROGRAM MODE LEVEL

User, Installer

### FACTORY DEFAULT

User Code 1: 123

All other codes: [blank]

### NOTES

1. To clear all codes (except the Installer Code), enter P98E in Installer Program mode. This also defaults user code 1 to 123. See Page 58.

2. Open/Close reports are identified by user number when the control panel is base station monitored.

### RELATED OPTIONS

Installer Code. See Page 15, How To Enter Program Mode.

Page 58, Programming The Installer Code.

Installer Code Default 000000

### RELATED OPTIONS

Programming Radio Codes, page 79

### IMPORTANT NOTES

**i** A User Code can be a Keypad Code, Radio Code or Reader Code, but only one type at any one time.

**i** By factory default all user codes are Keypad Codes.

**i** Any user codes not assigned to be Radio Codes or Reader Codes remain as Keypad Codes.

**i** When a user code is selected as a Radio Code or Reader Code, its Keypad Code (if any) is automatically deleted. The same applies to Radio Codes and Reader Codes - their codes are auto deleted when the code is changed to any other type.

**i** User Code 1 is the Master Code and is always a keypad code and cannot be programmed to be a Radio Code or Reader Code.

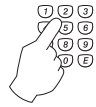
## RADIO DEVICE PROGRAMMING SEE PAGES 78-79

### USER CODES

D8XCEL and D16XCEL have 56 User Codes which are used to operate the panel by a variety of methods.

Each User Code can be assigned to either a KEYPAD CODE or a RADIO KEY or an ACCESS CARD.

### KEYPAD (PIN) CODES



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.

- Keypad Codes can optionally be programmed to be "Arm Only" codes.
- 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.

### NOTES

**1. Keypad Codes beginning with 0 (zero) can be programmed but they will not operate the panel.** This is an alternative method for disabling user codes. The MEMORY E function is recommended for deleting user codes. See below.

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.

### PROGRAMMING KEYPAD CODES

Press P [Any user option number from 201 to 256] E (The existing code is displayed one digit at a time).

Press [NEW CODE] E [NEW CODE AGAIN] E (The new code is displayed).

Example: To program the Master Code to be 1234.

Press P201E 1234E (1 beep) **1234E** (3 beeps)

**i** When replacing a Keypad Code, the old code does not need to be deleted first. The new code will overwrite the old code.

### DELETING KEYPAD CODES

To delete a User Code without programming a new code, press the MEMORY key in place of the code.

Example: To delete User Code 2, press **P202E MEMORY E**

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

### ARM ONLY CODES

**'Arm Only' is an extra option for user codes. See next page for further information.**

User Codes 2–56 can optionally be programmed as Arm Only Codes, which can Arm but cannot Disarm the panel. (Used for cleaners, temporary staff, etc).

Example: To program User Code 2 to be 1234 and an Arm Only code.

Press P202E EXCLUDE E 3E EXCLUDE E 1234E 1234E

(EXCLUDE E enters Extra Options mode, 3E enables the Arm Only option, then EXCLUDE E toggles back to normal user code program mode.)

When the code is viewed in program mode, the ARMED icon is briefly displayed before the digits of the code.

To disable the Arm Only feature for a keypad code, simply enter the option for that code, press EXCLUDE E to view Extra Options then press 3 E without re-entering a new code. This retains the existing code and toggles off the Arm Only feature.

**i** The Arm Only feature also applies to Radio Keys and Access Cards.

**i** Arm Only codes can also arm the panel directly from Home Mode. (Normally, user codes can arm the panel only if it is fully disarmed).

**i** Arm Only codes can also arm Home Mode as normal.

**i** Radio Keys programmed as an Arm Only can toggle the armed/disarmed state of the panel using the OFF button on the radio key.



# PROGRAMMING

**USER CODE  
OPTIONS TABLE**

**KPX+** EXCLUDE + E toggles Extra Options mode.  
**NAVIGATOR** Press Extra Code Options.  
 (Installer Program mode only)

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

## USER CODES

### ASSIGNING EXTRA OPTIONS

Each user code has several "extra options" which can be assigned when programming the code or at any time later.

In **NORMAL USER CODE PROGRAMMING mode** you can do the following:

- Program Keypad Codes (see page 23).
- Program Radio Codes (see page 79).
- Program Access cards (see page 81).
- View radio signal strength (see page 77).

In **EXTRA OPTIONS mode** you can assign several powerful functions to each user code. See below.

#### To view and program the Extra Options:

- KPX+** 1. Select a User Code (P201-P256E)
  2. Press EXCLUDE E. *The Exclude light turns ON.*
- NAVIGATOR** Press Extra Code Options.

The following Extra Options can now be changed:

- 1E AREA 1 CODES.** Assign/remove user codes to Area 1. (By default all user codes are assigned to Area 1).
- 2E AREA 2 CODES.** Assign/remove user codes to Area 2.
  - i** User codes can be assigned to Area 1, Area 2, both areas or no areas.
  - i** An Area will not arm unless it has one or more zones assigned to it (P45E, P46E).
  - i** If a code is not assigned to any Area/s, the code can be used for special functions such as to trigger outputs.
- 3E ARM ONLY.** User Codes 2-56 can be programmed to Arm but not Disarm the panel. (See page 14).
- 4E "CODE ONLY" ARMING.** Enables selected user codes to allow "code only arming". Arming can then be done with or without the use of the arm key on the keypad.
  - i** In the case of radio codes the radio key OFF button will toggle the armed state of the area assigned to the radio key.
  - i** If the User code is assigned to both AREA 1 and AREA 2. If AREA 1 is already armed, then entering the code will disarm AREA 1 - but arm AREA 2.

If the intention is to either ARM or DISARM both areas using this code then ARM + [code] must be used first to arm both areas. Once both are armed they can be disarmed.

  - i** If in Home mode, the action is to exit Home mode.
  - i** Codes selected for Code Only Arming and not assigned to any areas are automatically REX codes. See page 86.
- 5E RADIO CODE.** Enables selected user codes as Radio Codes for operation by Ness Radio Key or Radio Keypad. (Page 79 - how to program Radio Codes).
- 6E READER CODE 1.** Enables user codes as Access Control codes assigned to Reader 1. (Page 81 - Access Cards).
- 7E READER CODE 2.** Enables user codes as Access Control codes assigned to Reader 2. (Page 81 - Access Cards).
- 8E READER CODE 3.** Enables user codes as Access Control codes assigned to Reader 3. (Page 81 - Access Cards).
  - i** A user code can be assigned to any one, two or all three access control readers.
- 9E ENABLE FOR AUTOTIME.** Enables user codes for use by AutoTime. (See page 76, Enable/Disable User Codes Via AutoTimer).

Option No.	Description	Default	Note
P26E	Entry Delay Time 1	20	seconds
P27E	Entry Delay Time 2	6	x10 = 60seconds
P28E	Exit Delay Time	60	seconds
P29E	Siren Reset time	5	minutes

<b>P26E</b>	<b>ENTRY DELAY TIME1</b>						
<p><b>PROGRAM MODE LEVEL</b> User, Installer</p> <p><b>FACTORY DEFAULT</b> 20 (seconds)</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Programmable from 1 – 99 seconds.</li> <li>• The Entry Delay Time also sets the delay before Auto Re-Arming.</li> </ul> <p><b>RELATED OPTIONS</b> P120E 7E Entry Delay Extender</p>	<p>Entry Delay Time 1 is the time given to disarm the panel after an Entry Delay 1 zone is unsecured.</p> <p>Entry Delay Time1 can be from 1 to 99 seconds in 1 second increments. Enable option P120E 7E Entry Delay Extender for maximum of 990 seconds.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P26E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>Entry/Exit Delay &gt; Entry Delay Time 1 &gt; Enter new time E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P26E [NewTime]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P26E [New Time] E	NAVIGATOR	Entry/Exit Delay > Entry Delay Time 1 > Enter new time E	SMS*	P[MasterCode]E P26E [NewTime]E
KPX+	P26E [New Time] E						
NAVIGATOR	Entry/Exit Delay > Entry Delay Time 1 > Enter new time E						
SMS*	P[MasterCode]E P26E [NewTime]E						
<b>P27E</b>	<b>ENTRY DELAY TIME2</b>						
<p><b>PROGRAM MODE LEVEL</b> User, Installer</p> <p><b>FACTORY DEFAULT</b> 6 (=60sec)</p> <p><b>NOTES</b> Programmable from 10 – 990 seconds</p>	<p>Entry Delay Time2 is the time given to disarm the panel after an Entry Delay2 zone is unsecured.</p> <p>The Entry Delay Time2 setting is from 10 to 990 seconds (1 – 99).</p> <p>Note: The Entry Delay Time2 is set in 10 second increments so that a value setting of 6 means a 60 seconds delay.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P27E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>Entry/Exit Delay &gt; Entry Delay Time 2 &gt; Enter new time E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P27E [NewTime]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P27E [New Time] E	NAVIGATOR	Entry/Exit Delay > Entry Delay Time 2 > Enter new time E	SMS*	P[MasterCode]E P27E [NewTime]E
KPX+	P27E [New Time] E						
NAVIGATOR	Entry/Exit Delay > Entry Delay Time 2 > Enter new time E						
SMS*	P[MasterCode]E P27E [NewTime]E						
<b>P28E</b>	<b>EXIT DELAY TIME</b>						
<p><b>PROGRAM MODE LEVEL</b> User, Installer</p> <p><b>FACTORY DEFAULT</b> 60 (seconds)</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Programmable from 1 – 99 seconds</li> </ul> <p><b>RELATED OPTIONS:</b> P62E 8E Exit Time x10</p>	<p>Exit Delay Time is the time given to secure and depart the premises after the panel is armed. All zones (except 24hr zones) are inactive during the Exit Delay time.</p> <p>The Exit Delay Time setting is from 1 to 99 seconds in 1 second increments.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P28E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>Entry/Exit Delay &gt; Exit Delay Time 1 &gt; Enter new time E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P28E [NewTime]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P28E [New Time] E	NAVIGATOR	Entry/Exit Delay > Exit Delay Time 1 > Enter new time E	SMS*	P[MasterCode]E P28E [NewTime]E
KPX+	P28E [New Time] E						
NAVIGATOR	Entry/Exit Delay > Exit Delay Time 1 > Enter new time E						
SMS*	P[MasterCode]E P28E [NewTime]E						
<b>P29E</b>	<b>SIREN RESET TIME</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT 5</b> (minutes)</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Programmable from 1 – 99 minutes.</li> <li>• Siren times of longer than 5 minutes are contrary to noise pollution regulations in most areas.</li> </ul>	<p>Siren Reset Time sets the duration of the Siren and Reset outputs.</p> <p>Programmable from 1 to 99 minutes in 1 minute increments.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P29E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P29E &gt; Siren Reset Time &gt; Enter new time E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P29E [NewTime]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P29E [New Time] E	NAVIGATOR	P29E > Siren Reset Time > Enter new time E	SMS*	P[MasterCode]E P[InstallerCode]E P29E [NewTime]E
KPX+	P29E [New Time] E						
NAVIGATOR	P29E > Siren Reset Time > Enter new time E						
SMS*	P[MasterCode]E P[InstallerCode]E P29E [NewTime]E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

Option No.	Description	ZONES 1-8 (D8 & D16)								ZONES 9-16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P30E	<b>NORMAL</b>	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
VIBRATION OPTIONS	P31E	Vibration EXTREME*															
	P32E	Vibration HIGHEST															
	P33E	Vibration HIGH															
	P34E	Vibration MEDIUM															
	P35E	Vibration LOWER															
	P36E	Vibration LOWEST															
P37E	1 second ZONES																
P38E	3 second ZONES																

\* Extreme sensitivity (P31E) **should not be used**. It is provided as a guide only

P30E – P36E	VIBRATION SENSITIVITY						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> Normal sensitivity. P30E, all zones = ON</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>Sensitivity can be individually programmed for each zone.</li> <li>Zones are allocated to one sensitivity level at any one time. Turning a zone ON in a sensitivity level, turns the zone OFF in any other sensitivity level.</li> <li>To revert zone sensitivity back to Normal, turn on the required zone/s at P30E.</li> </ul>	<p>Each zone has individually adjustable sensitivity for connection of Nessensor Vibration Sensors. Zone sensitivity is adjusted by toggling zones ON in options P30E to P36E. P30E is Normal Sensitivity, vibration analyser disabled. This is used for normal alarm devices. Zone response time, 200ms.</p> <p>P31–36E are the options for the 6 levels of vibration sensitivities. P31E is the most sensitive setting.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white;">KPX+</td> <td>P30E ~ P36E [Zone Number] E to enable a sensitivity level per zone</td> </tr> <tr> <td style="background-color: #00ff00; color: white;">NAVIGATOR</td> <td>P30E &gt; View Zones &gt; Select zones (Press Next/Previous Option)</td> </tr> <tr> <td style="background-color: #00bfff; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P30E [Zone Number] E eg. Zones 3 &amp; 4 to be Medium sensitivity P[MasterCode]E P[InstallerCode]E P34E 3E 4E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P30E ~ P36E [Zone Number] E to enable a sensitivity level per zone	NAVIGATOR	P30E > View Zones > Select zones (Press Next/Previous Option)	SMS*	P[MasterCode]E P[InstallerCode]E P30E [Zone Number] E eg. Zones 3 & 4 to be Medium sensitivity P[MasterCode]E P[InstallerCode]E P34E 3E 4E
KPX+	P30E ~ P36E [Zone Number] E to enable a sensitivity level per zone						
NAVIGATOR	P30E > View Zones > Select zones (Press Next/Previous Option)						
SMS*	P[MasterCode]E P[InstallerCode]E P30E [Zone Number] E eg. Zones 3 & 4 to be Medium sensitivity P[MasterCode]E P[InstallerCode]E P34E 3E 4E						
P37E – P38E	LONG RESPONSE ZONES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> all off</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>A Long Response Zone cannot be a Normal Zone or Vibration zone at the same time.</li> <li>To convert zone/s back to a Normal Zone, turn on the required zone/s at P30E.</li> </ul> <p><b>RELATED OPTIONS</b> P301E 5E-7E Request To Exit (REX)</p>	<p>Long Response Zones are normal alarm zones with a long reaction time. Individual zones can be programmed to have either a 1 second response (P37E) or 3 second response (P38E).</p> <p>This is useful where zones 5, 6 or 7 have been programmed as REX inputs for access control purposes, (P301E 5E-7E). To prevent accidental door opening, the REX button then must be pressed and held for 1sec or 3sec, as programmed.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white;">KPX+</td> <td>P37E ~ P38E&gt; Enter [Zone Number] E to enable that sensitivity</td> </tr> <tr> <td style="background-color: #00ff00; color: white;">NAVIGATOR</td> <td>P37E &gt; View Zones &gt; Select zones (Press Next/Previous Option)</td> </tr> <tr> <td style="background-color: #00bfff; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P37E [Zone Number] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P37E ~ P38E> Enter [Zone Number] E to enable that sensitivity	NAVIGATOR	P37E > View Zones > Select zones (Press Next/Previous Option)	SMS*	P[MasterCode]E P[InstallerCode]E P37E [Zone Number] E
KPX+	P37E ~ P38E> Enter [Zone Number] E to enable that sensitivity						
NAVIGATOR	P37E > View Zones > Select zones (Press Next/Previous Option)						
SMS*	P[MasterCode]E P[InstallerCode]E P37E [Zone Number] E						

**i**

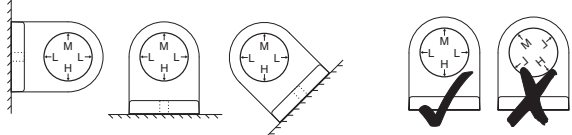
**ADJUSTING NESSENSORS**

Nessensors are sensitive to high frequencies and insensitive to low frequencies. Therefore it is not necessary to apply much force to the protected structure, rather a very rapid succession of blows.

The sensitivity has been correctly adjusted when a single blow applied with a soft object (e.g. by hand) does not cause an alarm whereas a rapid series of blows (using a metal object such as a screwdriver blade) will cause an alarm.

**NESSENSOR™ Vibration Sensor**  
Part No. VIB500

In addition to zone sensitivity adjustment, the overall sensitivity of the Nesssensor can be adjusted by rotating the body of the Nesssensor within its bracket.



The Nessensor bracket must always be mounted horizontally and the arrow must point up for any required setting.

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	ZONES 1-8 (D8 & D16)								ZONES 9-16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P39E	DOUBLE TRIGGER zones																
P40E	INSTANT zones			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P41E	ENTRY DELAY 1 zones	ON															
P42E	HANDOVER zones		ON														
P43E	ENTRY DELAY 2 zones																
P44E	LOCKOUT zones (Reset O/P)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P45E	AREA 1 zones	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P46E	AREA 2 zones																
P51E	HOME zones																
P52E	24HR zones																
P53E	DAY zones																

## ZONE DELAY TYPES

Only one option per zone can be selected. For example; a zone cannot be instant and delayed at the same.

### P39E

### DOUBLE TRIGGER ZONES

#### PROGRAM MODE LEVEL

Installer

#### FACTORY DEFAULT

All OFF: No Double Trigger zones.

#### NOTES

- Double Trigger is useful for preventing unwanted alarms from zones in harsh environments such as sheds and garages.
- (KPX+) **0E** will turn all selections OFF. **MEMORY E** will turn all selections ON.

Zones programmed to Double Trigger will recognise an alarm condition if:

- The zone has been triggered twice within a 4 minute period.
- If any 2 zones (both programmed for double trigger), each trigger once.
- The zone is left unsealed for longer than 15 seconds.

<b>KPX+</b>	P39E [Zone Number] E to enable/disable zones
<b>NAVIGATOR</b>	P39E > Select zones
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P39E [Zone Number] E

Or use **NessXCEL** app

### P40E

### INSTANT ZONES

#### PROGRAM MODE LEVEL

Installer

#### FACTORY DEFAULT

D8, 3E-8E ON: Zones 3-8 Instant.

D16, 3E-16E ON: Zones 3-16 Instant.

#### NOTES

When a zone is selected for this type, it is automatically deselected from any other zone type in the DELAY GROUP.

#### RELATED OPTIONS

P41E, P42E, P43E

Instant Zones operate only in the Armed state. When Armed at the expiry of exit time, Instant Zones will activate assigned outputs immediately when triggered.

<b>KPX+</b>	P40E [Zone Number] E to enable zones
<b>NAVIGATOR</b>	P39E > Select zones
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P40E [Zone Number] E

Or use **NessXCEL** app

### P41E

### ENTRY DELAY1 ZONES

#### PROGRAM MODE LEVEL

Installer

#### FACTORY DEFAULT

1E ON: Zone 1 has Entry Delay1.

#### NOTES

When a zone is selected for this type, it is automatically deselected from any other zone type in the DELAY GROUP.

#### RELATED OPTIONS

P60E 1E Entry Beeps  
P40E, P42E, P43E

Entry Delay1 zones operate only in the Armed state. When Armed, at the expiry of exit time these zones will activate the Entry Delay Timer1 (P26E) when they are triggered. If the panel is not disarmed before the expiry of the Entry Delay Timer1, the alarm outputs will be activated.

<b>KPX+</b>	P41E [Zone Number] E to enable zones
<b>NAVIGATOR</b>	P41E > Select zones
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P41E [Zone Number] E

Or use **NessXCEL** app

#### **KPX+** PRO TIP

When selecting zones, **0 E** selects all zones, **MEMORY E** deselects all zones

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

<b>P42E</b>	<b>HANDOVER ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 2E ON: Zone 2 is a Handover zone.</p> <p><b>NOTES</b> When a zone is selected for this type, it is automatically deselected from any other zone type in the DELAY GROUP.</p> <p><b>RELATED OPTIONS</b> P40E, P41E, P43E</p>	<p>Handover zones are delayed only if entry is made through an Entry Delay zone first. If a Handover zone is triggered first, the zone behaves as an instant zone. Normally, the “point of entry” zone should be Delay zone, with any other zones in the entry path programmed as Handover zones.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P42E [Zone Number] E to enable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P42E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P42E [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P42E [Zone Number] E to enable zones	NAVIGATOR	P42E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P42E [Zone Number] E
KPX+	P42E [Zone Number] E to enable zones						
NAVIGATOR	P42E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P42E [Zone Number] E						
<b>P43E</b>	<b>ENTRY DELAY2 ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All OFF: No zones have Entry Delay2.</p> <p><b>NOTES</b> When a zone is selected for this type, it is automatically deselected from any other zone type in the DELAY GROUP.</p> <p><b>RELATED OPTIONS</b> P40E, P41E, P42E</p>	<p>When an Entry Delay2 zone is triggered, it has entry delay as set by the Entry Delay Time2 (P27E).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P43E [Zone Number] E to enable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P43E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P43E [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P43E [Zone Number] E to enable zones	NAVIGATOR	P43E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P43E [Zone Number] E
KPX+	P43E [Zone Number] E to enable zones						
NAVIGATOR	P43E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P43E [Zone Number] E						
<b>P44E</b>	<b>RESET LOCKOUT ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All ON: All zones are Lockout zones.</p> <p><b>NOTES</b> When a zone is selected for this type, it is automatically deselected from any other zone type in the DELAY GROUP.</p> <p style="background-color: #e91e63; color: white; padding: 2px; display: inline-block;"><b>KPX+</b> <b>PRO TIP</b></p> <p>When selecting zones, 0 E selects all, MEMORY E deselects all.</p> <p><b>RELATED OPTIONS</b> P60E 4E Tamper Reset Lockout. P78E Multiple alarm reports.</p>	<p>All zones and tamper input can be programmed to Lockout, i.e. cause the RESET OUTPUT to sound only once while the panel is armed.</p> <p>The RESET OUTPUT is then locked out for that alarmed zone until entering a valid code has reset the panel. If using area partitioning, disarming either partition resets the zone lockout for both partitions.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P44E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P44E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P44E [Zone Number]E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P44E [Zone Number] E to enable/disable zones	NAVIGATOR	P44E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P44E [Zone Number]E
KPX+	P44E [Zone Number] E to enable/disable zones						
NAVIGATOR	P44E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P44E [Zone Number]E						

## AREA PARTITIONING

ASSIGNING ZONES TO AREAS		ZONES 1–8 (D8 & D16)								ZONES 9–16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Option No.	Description																
P45E	AREA 1 ZONES	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P46E	AREA 2 ZONES																

<b>P45E, P46E</b>	<b>ASSIGNING ZONES TO AREAS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All zones assigned to Area 1. No zones assigned to Area 2.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>Zones assigned to BOTH areas become Common zones.</li> <li>If no Area operation is required, assign all zones to Area 1. (This is also the factory default).</li> </ul>	<p>Assign (or remove) zones that will operate in Area 1 and/or Area 2.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P45E [Zone Number] E to enable/disable zones for Area 1 P46E [Zone Number] E to enable/disable zones for Area 2</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P45E &gt; Select zones (Press Next/Previous Option) P46E &gt; Select zones (Press Next/Previous Option)</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P45E [Zone Number]E P[MasterCode]E P[InstallerCode]E P46E [Zone Number]E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P45E [Zone Number] E to enable/disable zones for Area 1 P46E [Zone Number] E to enable/disable zones for Area 2	NAVIGATOR	P45E > Select zones (Press Next/Previous Option) P46E > Select zones (Press Next/Previous Option)	SMS*	P[MasterCode]E P[InstallerCode]E P45E [Zone Number]E P[MasterCode]E P[InstallerCode]E P46E [Zone Number]E
KPX+	P45E [Zone Number] E to enable/disable zones for Area 1 P46E [Zone Number] E to enable/disable zones for Area 2						
NAVIGATOR	P45E > Select zones (Press Next/Previous Option) P46E > Select zones (Press Next/Previous Option)						
SMS*	P[MasterCode]E P[InstallerCode]E P45E [Zone Number]E P[MasterCode]E P[InstallerCode]E P46E [Zone Number]E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

## AREA PARTITIONING

### DEFINITION

Area Partitioning allows the control panel 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.

### 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.

### 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.

### 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 zones and 24hr zones are independent of area operations.

## AREA PARTITIONING & HOME MODE

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

1. Area 1 must be OFF.
2. Area 2 must be armed first, and then Home armed – not the reverse.
3. Zones assigned to both Home mode (P51E) and to Area 2 (P46E) will act as Home zones when both Area 2 and Home are armed.
4. Zones must be assigned to P51E to allow Home arm.
5. User codes assigned only to Area2 can arm but **will not disarm Home Mode**.

Note: Home arming when AREA 2 is armed cannot be done by Radio Key (double OFF button) or by keyswitch.

Note: Home Mode is not available when Area 1 is armed.

## HOME MODE

Home Mode allows selected zones to be armed while the system is disarmed. For example, this is often used to arm door and windows sensors overnight, while allowing free movement within the premises.

1. Home Mode will not arm if Area 1 is armed.
2. Home Mode will not arm if there are no Home zones programmed, (P51E).
3. User codes assigned only to Area2 can arm but will not disarm Home Mode.
4. Zones which are to be armed in Home Mode are selected using option P51E.
5. Home Mode can be armed by Keypad, Radio Key or Access Card.
6. Audible outputs in Home Mode (set by options P63E 1E-4E) are independent of audible outputs in fully armed mode.
7. If dialler reporting is enabled, Home Mode alarms will be reported as normal providing that:
  - a/ The zone/s are selected to report alarms by option P74E.
  - b/ Options P64E 1E & 3E are off. (Brief Home Alarm, Home Entry Delay2).
8. Zones selected to be Entry Delay1 zones also have entry delay in Home Mode.
9. If Home Zones Entry Delay2 (P64E 3E) is enabled, then *a//* Home zones will have entry delay as set by P27E.

## TEMPORARY DAY ZONES OPERATION (KPX+ and Navigator)

The Temporary Day Zone feature allows easy and flexible Day Zone selection and operation.

While remaining in normal operating mode, the user can add and remove Temporary Day Zones and enable/disable day zone operation using simple key strokes.

### TO ENABLE TEMPORARY DAY ZONES

To enable Temporary Day Zone selection and operation, the Brief Day Alarm feature (installer option P64E 2E) must be ON. If P64E 2E is OFF, the Temporary Day Zone feature will be unavailable but Permanent Day Zones will still operate and will sound the programmed output while the zone is unsealed.

P64E 2E is OFF by default.

### USER COMMANDS (In normal Operating Mode).

**(P) + (E)** Selection Mode. Enter **P** followed by **E** when in operating mode to enter Temporary Day Zone selection mode.

**[Zone No.] + (E)** Zone Selection. To select or deselect zones to be Temporary Day Zones. The selected zones are indicated by the corresponding zone number.

Permanent Day Zones, (set by 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.

**(E)** Saves changes and returns to normal operating mode.

**(O) + (E)** Enables and Disables Day Mode. This enables/disables both Temporary and Permanent Day Zones.

### INDICATION

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

### OPERATION

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.

### KPX CHIME

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

### AUX 2 OPTION

When the Temporary Day Zone feature is enabled, the installer option P63E 6E selects Aux 2 output instead of the strobe output. This allows a remote warning device such as a buzzer to be connected for day zone warning. This may be needed if an additional audible day zone warning is needed, although the keypad sonalert, (P63E 7E), is more than adequate in most cases.

### RELATED OPTIONS

**P64E 2E**, Brief Day Alarm. Turn this option on to enable Temporary Day Zones. Factory default = OFF.

**P63E 5E**, Day Mode to Reset output.

**P63E 6E**, Day Mode to Strobe output.

If P64E 2E is ON, then this option sends day alarms to the AUX 2 output.

**P63E 7E**, Day Mode to Sonalert.

**P63E 8E**, Day Mode to Siren output.

**P53E**, Permanent Day Zone selection.

**P126E 4E**, Enable KPX Chime in Day Mode

**(I)** Temporary Day Zone selections will be lost if the panel is powered down or reset, but are not affected by arming/disarming or entering program mode.



# PROGRAMMING

P51E	HOME ZONES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> all OFF: No Home zones.</p> <p><b>NOTES</b> By default, all Home zones have Entry Delay2, see P64E 3E. If this option is off Home zones have normal entry delay attributes set by options P40E–P42E.</p> <p><b>RELATED OPTIONS</b>  <b>P63E</b> Home Mode output mapping.  <b>P64E 1E</b> Brief Home alarm.  <b>P64E 3E</b> Home zones have Entry Delay2.  <b>P69E 3E</b> Quiet Home siren.  <b>P69E 5E</b> Radio Key ON or OFF button arms Home Mode.  <b>P120E 2E</b> Home arm chirps by radio key.  <b>P120E 3E</b> Radio Key AUX button arms Home mode.  <b>P120E 6E</b> Smart Beeps for Home and Day zones.</p>	<p>Home zones allow you to Arm selected zones while others are ignored. Typically used for perimeter zones such as windows and doors while you are at home.</p> <p>For example: upstairs zones are Disarmed while downstairs zones are Armed in Home mode.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P51E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P51E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P51E [Zone Number] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p> <p><b>NOTE:</b> Zones selected to Report Zone Alarms (P74E) will by default report alarms in Home Mode, (if the dialler is enabled).</p> <p>The Brief Home Alarm option P64E 1E, when enabled, prevents Home alarms from reporting.</p> <p>See page 29 for Home Mode operation.</p>	KPX+	P51E [Zone Number] E to enable/disable zones	NAVIGATOR	P51E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P51E [Zone Number] E
KPX+	P51E [Zone Number] E to enable/disable zones						
NAVIGATOR	P51E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P51E [Zone Number] E						
P52E	24HR ZONES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All OFF: No 24hr zones.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• The Tamper input is always a 24hr zone.</li> <li>• For silent 24hr zones, deselect the zone/s from options P54E-P57E (Reset, Strobe, Sonalert &amp; Siren).</li> <li>• To change a 24hr zone to any other zone type, the zone must also be re-assigned to an AREA (P45E or P46E).</li> </ul>	<p>24hr Zones operate at all times regardless of the mode of panel operation, i.e. Armed, Disarmed or Home Monitor. When alarmed, these zones will activate assigned outputs immediately. To reset those alarms a valid user code must be entered.</p> <p>Selecting a zone as 24hr will override any other zone type setting such as Instant, Delayed or Handover. 24hr zones are independent of Area operation. All other zone types must be assigned to at least one Area to become active.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P52E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P52E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P52E [Zone Number] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P52E [Zone Number] E to enable/disable zones	NAVIGATOR	P52E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P52E [Zone Number] E
KPX+	P52E [Zone Number] E to enable/disable zones						
NAVIGATOR	P52E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P52E [Zone Number] E						
P53E	DAY ZONES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All OFF: No Day zones.</p> <p><b>NOTES</b> Typical uses For Day Zones, Instant alert when a delivery door is opened, doorway alert for a shop.</p> <p><b>RELATED OPTIONS</b>  <b>P63E 5E-8E</b> Day zone output mapping.  <b>P64E 2E</b> Brief Day Mode alarm.  <b>P120E 6E</b> Smart Beeps for Home and Day zones.</p>	<p>Day Zones operate when the panel is fully disarmed, i.e. when Area 1, Area 2 and Home are all off. When alarmed, these zones will activate their assigned outputs instantly.</p> <p>The outputs mapped to the Day Zone will turn on while the zone is unsealed. Turn P64E 2E on, to limit Day Zone alarms to 2 seconds.</p> <p>Also see Temporary Day Zones feature (page 29) which allows day mode to be easily enabled/disabled and day zones added/removed by the user from any keypad.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P53E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P53E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P53E [Zone Number] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p> <div style="background-color: #f0f0f0; padding: 5px; text-align: center; margin-top: 10px;"> <p>See page 29 for information about TEMPORARY DAY</p> </div>	KPX+	P53E [Zone Number] E to enable/disable zones	NAVIGATOR	P53E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P53E [Zone Number] E
KPX+	P53E [Zone Number] E to enable/disable zones						
NAVIGATOR	P53E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P53E [Zone Number] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

## ZONE TO OUTPUT MAPPING

When a zone alarms, it can turn on any or all outputs: Sonalert, Strobe, Siren, Reset, AUX outputs.

The programming is selected with options P54E – P59E. Simply set the zone number to the output to select it. The zone LED will indicate if the zone is selected.

The Tamper Input and the Keypad Panic can be programmed to turn on the Reset, Strobe, Sonalert and Siren by using option P61E.



Zone To Output Mapping applies to zones when the panel is in the Armed or 24hr state. For Home and DAY mode Output Mapping – see Option P63E 1E–8E, page 37.

### MAPPING ZONES TO OUTPUTS

Option No.	Description	ZONES 1–8 (D8 & D16)								ZONES 9–16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P54E	RESET Zones	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P55E	STROBE Zones	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P56E	SONALERT Zones	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P57E	SIREN Zones	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P58E	AUX1,3 Zones																
P59E	AUX2,4 Zones																

### P54E

#### RESET OUTPUT ZONES

##### PROGRAM MODE LEVEL

Installer

##### FACTORY DEFAULT

All ON: All zones trigger Reset output.

Selects the zones to trigger the Reset output.

<b>KPX+</b>	P54E [Zone Number] E to enable/disable zones
<b>NAVIGATOR</b>	P54E > Select zones
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P54E [Zone Number] E

Or use **NessXCEL** app

### P55E

#### STROBE OUTPUT ZONES

##### PROGRAM MODE LEVEL

Installer

##### FACTORY DEFAULT

All ON: All zones trigger Strobe output.

Selects the zones to trigger the Strobe output.

<b>KPX+</b>	P55E [Zone Number] E to enable/disable zones
<b>NAVIGATOR</b>	P55E > Select zones
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P55E [Zone Number] E

Or use **NessXCEL** app

### P56E

#### KEYPAD SONALERT ZONES

##### PROGRAM MODE LEVEL

Installer

##### FACTORY DEFAULT

All ON: All zones sound the Keypad Sonalert.

Selects the zones to trigger the Keypad Sonalert.

<b>KPX+</b>	P56E [Zone Number] E to enable/disable zones
<b>NAVIGATOR</b>	P56E > Select zones
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P56E [Zone Number] E

Or use **NessXCEL** app

### P57E

#### SIREN ZONES

##### PROGRAM MODE LEVEL

Installer

##### FACTORY DEFAULT

All ON: All zones trigger Siren output

Selects the zones to trigger the Siren output.

<b>KPX+</b>	P57E [Zone Number] E to enable/disable zones
<b>NAVIGATOR</b>	P57E > Select zones
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P57E [Zone Number] E

Or use **NessXCEL** app

#### **KPX+** PRO TIP

When selecting zones, **0 E** selects all zones, **MEMORY E** deselects all zones

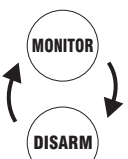
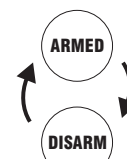

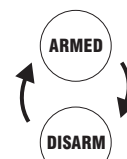
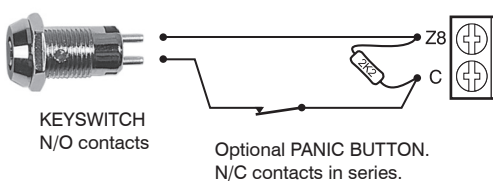
\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

<b>P58E</b>	<b>AUX1,3 OUTPUT ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All OFF: No zones trigger AUX 1 or 3</p> <p><b>RELATED OPTIONS</b> P121E, P123E Day zone output mapping.</p>	<p>Selects the zones to trigger the AUX1 or AUX3 outputs. This option selects which zones trigger AUX1 or 3.</p> <p><b>Use P121E 1E and/or P123E 1E to enable the ouput.</b></p> <p>Once turned on by a zone alarm, the output will remain on until the panel is reset/disarmed.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P58E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P58E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P58E [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P58E [Zone Number] E to enable/disable zones	NAVIGATOR	P58E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P58E [Zone Number] E
KPX+	P58E [Zone Number] E to enable/disable zones						
NAVIGATOR	P58E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P58E [Zone Number] E						
<b>P59E</b>	<b>AUX2,4 OUTPUT ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All OFF: No zones trigger AUX 2 or 4</p> <p><b>RELATED OPTIONS</b> P121E, P123E Day zone output mapping.</p>	<p>Selects the zones to trigger the AUX2 or AUX4 outputs. This option selects which zones trigger AUX2 or 4.</p> <p><b>Use P122E 1E and/or P124E 1E to enable the ouput.</b></p> <p>Once turned on by a zone alarm, the output will remain on until the panel is reset/disarmed.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P59E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P59E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P59E [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P59E [Zone Number] E to enable/disable zones	NAVIGATOR	P59E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P59E [Zone Number] E
KPX+	P59E [Zone Number] E to enable/disable zones						
NAVIGATOR	P59E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P59E [Zone Number] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	Default	
<b>P60E</b>	1E	Entry Beeps	ON
	2E	Keyswitch Home Monitor/Disarm	OFF
	3E	Keyswitch Arm/Disarm	OFF
	4E	Tamper Siren lockout	ON
	5E	Duress to RESET output	OFF
	6E	Auto Exclude zones	ON
	7E	Auto keypad display off	OFF
	8E	Delayed Aux3, Aux4 outputs	OFF

P60E 1E	ENTRY BEEPS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> Entry Beeps ON.</p> <p><b>RELATED OPTIONS</b> P69E 7E Arm Exit Beeps. P69E 8E Home Exit Beeps.</p>	<p>The sonalert will beep during Entry Delay.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white;">KPX+</td> <td>P60E 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #00ff00; color: white;">NAVIGATOR</td> <td>P60E &gt; enable/disable option 1E</td> </tr> <tr> <td style="background-color: #00bfff; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P60E 1E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P60E 1E to enable/disable the option	NAVIGATOR	P60E > enable/disable option 1E	SMS*	P[MasterCode]E P[InstallerCode]E P60E 1E
KPX+	P60E 1E to enable/disable the option						
NAVIGATOR	P60E > enable/disable option 1E						
SMS*	P[MasterCode]E P[InstallerCode]E P60E 1E						
P60E 2E, 3E	KEYSWITCH OPERATION						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> Keyswitch disabled.</p> <p><b>NOTES</b> The keyswitch: a/ Always Arms Area1 only. b/ Does not arm Area2. c/ Can disarm Area2 if option P120E 8E is enabled. • Use a 2K2 resistor on the keyswitch input regardless of the global EOL resistor value set by P129E. Also see P129E, page 73. • Short the resistor to arm and disarm. Open circuit to trigger Panic alarm.</p> <p><b>RELATED OPTIONS</b> P120E 1E Latched Keyswitch. P120E 4E Keyswitch Disarms only. P120E 5E Keyswitch Arms only. P120E 8E Keyswitch disarm Area2. P129E EOL Resistor value</p>	<p>An externally fitted, normally open momentary Keyswitch can be used to Arm, Disarm or arm the Home mode.</p> <p>The keyswitch is wired to zone 8 (zone 8 is then no longer available as a normal alarm input, but is still available for use as a Radio Zone).</p> <p>2E &amp; 3E OFF: No keyswitch operation. Zone 8 is a normal alarm input. 2E ON: Keyswitch cycles between Home and Disarm. 3E ON: Keyswitch cycles between Arm and Disarm. 2E &amp; 3E ON: Keyswitch cycles between Arm, Home and Disarm.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white;">KPX+</td> <td>P60E enable/disable 2E 3E as required</td> </tr> <tr> <td style="background-color: #00ff00; color: white;">NAVIGATOR</td> <td>P60E &gt; enable/disable 2E 3E as required</td> </tr> <tr> <td style="background-color: #00bfff; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P60E 2E 3E as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p><b>Momentary Keyswitch</b> P60E 2E is ON</p> </div> <div style="text-align: center;">  <p><b>Momentary Keyswitch</b> P60E 3E is ON</p> </div> <div style="text-align: center;">  <p><b>Momentary Keyswitch</b> P60E 2E is ON P60E 3E is ON</p> </div> <div style="text-align: center;">  <p><b>Latching Keyswitch</b> P120E 1E is ON</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p><b>KEYSWITCH WIRING.</b> A momentary or latching keyswitch can be wired as shown. Always use a 2K2 resistor regardless of the global EOL resistor value set by P129E</p> </div>	KPX+	P60E enable/disable 2E 3E as required	NAVIGATOR	P60E > enable/disable 2E 3E as required	SMS*	P[MasterCode]E P[InstallerCode]E P60E 2E 3E as required
KPX+	P60E enable/disable 2E 3E as required						
NAVIGATOR	P60E > enable/disable 2E 3E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P60E 2E 3E as required						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

<b>P60E 4E</b>	<b>TAMPER SIREN LOCKOUT</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON Tamper Reset Lockout enabled.</p> <p><b>RELATED OPTIONS</b> P44E Lockout zones.</p>	<p>This option programs the Tamper input to Lockout, i.e. cause the Siren &amp; Reset outputs to sound only once while the panel is armed.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P60E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P60E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P60E 4E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P60E 4E to enable/disable the option	NAVIGATOR	P60E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P60E 4E
KPX+	P60E 4E to enable/disable the option						
NAVIGATOR	P60E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P60E 4E						
<b>P60E 5E</b>	<b>DURESS TO RESET OUTPUT</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF No Reset output on Duress alarm.</p> <p><b>RELATED OPTIONS</b> P75E 1E Enable reporting of Duress.</p>	<p>Keypad Duress is normally a silent alarm. This option makes the Duress alarm trigger the Reset output. To Disarm with Duress, add any of the digits 5,6,8 or 9 in front of the user code when Disarming.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P60E 5E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P60E &gt; enable/disable 5E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P60E 5E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P60E 5E to enable/disable the option	NAVIGATOR	P60E > enable/disable 5E	SMS*	P[MasterCode]E P[InstallerCode]E P60E 5E
KPX+	P60E 5E to enable/disable the option						
NAVIGATOR	P60E > enable/disable 5E						
SMS*	P[MasterCode]E P[InstallerCode]E P60E 5E						
<b>P60E 6E</b>	<b>AUTO EXCLUDE ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON Auto Exclude enabled.</p> <p><b>RELATED OPTIONS</b> P62E 7E Siren burst on Auto Exclude.</p>	<p>If a zone is unsealed at the end of Exit Time the panel can either Exclude (ignore) that zone or immediately alarm.</p> <p>The panel will give a 2 second Siren burst at the end of Exit Time to indicate that the panel is armed with a zone/s Auto Excluded. The 2 sec Siren burst can be disabled by option P62E 7E.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P60E 6E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P60E &gt; enable/disable 6E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P60E 6E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P60E 6E to enable/disable the option	NAVIGATOR	P60E > enable/disable 6E	SMS*	P[MasterCode]E P[InstallerCode]E P60E 6E
KPX+	P60E 6E to enable/disable the option						
NAVIGATOR	P60E > enable/disable 6E						
SMS*	P[MasterCode]E P[InstallerCode]E P60E 6E						
<b>P60E 7E</b>	<b>DISABLE KEYPAD DISPLAY</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Display is always ON.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• LCD KEYPADS: The LCD display and display backlighting will turn off but the key backlighting will remain on. The keypad flap can be closed to reduce stray light from the keys.</li> <li>NAVIGATOR KEYPAD: The touch screen display will go blank. Touch to restore.</li> </ul>	<p>Keypad displays can be programmed to blank after 4 minutes of no keypad use. Any action that causes a beep will restore the display. (LCD keypads, use the (E) button preferably. Navigator Touch Screen Keypad, touch to restore the display).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P60E 7E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P60E &gt; enable/disable 7E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P60E 7E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P60E 7E to enable/disable the option	NAVIGATOR	P60E > enable/disable 7E	SMS*	P[MasterCode]E P[InstallerCode]E P60E 7E
KPX+	P60E 7E to enable/disable the option						
NAVIGATOR	P60E > enable/disable 7E						
SMS*	P[MasterCode]E P[InstallerCode]E P60E 7E						
<b>P60E 8E</b>	<b>DELAYED AUX3 &amp; AUX4 OUTPUTS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: AUX3 &amp; AUX4 outputs are instant.</p> <p><b>RELATED OPTIONS</b> P143E 1E, AUX3 on when Area1 arms. P143E 2E, AUX3 on when Area2 arms. P144E 1E, AUX4 on when Area1 arms. P144E 2E, AUX4 on when Area2 arms.</p>	<p>The AUX3 and AUX4 outputs can be programmed to turn on when Areas 1 and 2 are armed. These outputs can be programmed to turn on instantly or at the end of Exit Time. This option only applies when AUX3 and AUX4 outputs are enabled as Arm1 and Arm2 outputs, (P143E 1E on and P144E 1E on).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P60E 8E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P60E &gt; enable/disable 8E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P60E 8E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P60E 8E to enable/disable the option	NAVIGATOR	P60E > enable/disable 8E	SMS*	P[MasterCode]E P[InstallerCode]E P60E 8E
KPX+	P60E 8E to enable/disable the option						
NAVIGATOR	P60E > enable/disable 8E						
SMS*	P[MasterCode]E P[InstallerCode]E P60E 8E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	Default	
<b>P61E</b>	1E	Tamper to RESET output	ON
	2E	Tamper to STROBE output	ON
	3E	Tamper to Keypad Sonalert	ON
	4E	Tamper to SIREN output	ON
	5E	Keypad Panic to RESET output	ON
	6E	Keypad Panic to STROBE output	ON
	7E	Keypad Panic to Sonalert	ON
	8E	Keypad Panic to SIREN output	ON

P61E 1E-4E	TAMPER ALARM / OUTPUT MAPPING						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 1E-4E, ON: Tamper alarm triggers all outputs.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>A Tamper Alarm can be caused by the TAMP input or by removing the J1 PROG/TAMP link on the main board.</li> </ul>	<p>This option selects which outputs will trigger when a Tamper Alarm occurs.</p> <p>1E ON: Tamper Alarm to Reset output 2E ON: Tamper Alarm to Strobe output 3E ON: Tamper Alarm to Keypad Sonalert output 4E ON: Tamper Alarm to Siren output</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P61E enable/disable 1E ~ 4E as required</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P61E &gt; enable/disable 1E ~ 4E as required</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P61E 1E ~ 4E as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P61E enable/disable 1E ~ 4E as required	NAVIGATOR	P61E > enable/disable 1E ~ 4E as required	SMS*	P[MasterCode]E P[InstallerCode]E P61E 1E ~ 4E as required
KPX+	P61E enable/disable 1E ~ 4E as required						
NAVIGATOR	P61E > enable/disable 1E ~ 4E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P61E 1E ~ 4E as required						
P61E 5E-8E	KEYPAD PANIC ALARM / OUTPUT MAPPING						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 5E-8E, ON: Panic alarm triggers all outputs.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>A Keypad Panic Alarm can be caused by the PANIC keys on the keypad (* E or ** together, depending on Option P126E1E).</li> </ul>	<p>This option selects which outputs will trigger when a Keypad Panic alarm occurs.</p> <p>5E ON: Keypad Panic Alarm to Reset output 6E ON: Keypad Panic Alarm to Strobe output 7E ON: Keypad Panic Alarm to Keypad Sonalert output 8E ON: Keypad Panic Alarm to Siren output</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P61E enable/disable 5E ~ 8E as required</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P61E &gt; enable/disable 5E ~ 8E as required</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P61E 5E ~ 8E as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P61E enable/disable 5E ~ 8E as required	NAVIGATOR	P61E > enable/disable 5E ~ 8E as required	SMS*	P[MasterCode]E P[InstallerCode]E P61E 5E ~ 8E as required
KPX+	P61E enable/disable 5E ~ 8E as required						
NAVIGATOR	P61E > enable/disable 5E ~ 8E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P61E 5E ~ 8E as required						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



# PROGRAMMING

Option No.	Description	Default	
<b>P62E</b>	1E	Shortcut Memory display	ON
	2E	Shortcut Zone Exclude	ON
	3E	Shortcut Home Mode	ON
	4E	Shortcut Keypad Panic	OFF
	5E	Shortcut Area1 Arming	ON
	6E	Shortcut Area2 Arming	OFF
	7E	Brief warning on Auto Exclude	ON
	8E	Exit Time x10	OFF

P62E 1E-6E	SYSTEM OPERATION SHORTCUTS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 1E ON: Memory Display shortcut enabled 2E ON: Zone Exclude shortcut enabled 3E ON: Home Mode shortcut enabled 4E OFF: Keypad Panic shortcut disabled 5E ON: Area1 Arming shortcut enabled 6E OFF: Area2 Arming shortcut disabled</p> <p><b>NOTES</b> If either Area1 or Area2 are armed by shortcut and no user codes are assigned to that Area then it will always remain armed. You will then need to enter program mode on power-up and assign codes to Areas.</p> <p><b>RELATED OPTIONS</b> P126E 1E, 2E, 3E double key keypad functions</p>	<p>Some keypad operations can be programmed to operate with or without a User Code.</p> <p>1E ON: Memory Display shortcut 2E ON: Zone Exclude shortcut 3E ON: Home Mode shortcut 4E ON: Keypad Panic shortcut 5E ON: Area1 Arming shortcut 6E ON: Area2 Arming shortcut</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P62E enable/disable 1E ~ 6E as required</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P62E &gt; enable/disable 1E ~ 6E as required</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P62E 1E ~ 6E as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p> <p><b>OPERATING EXAMPLES:</b></p> <p><span style="background-color: #e91e63; color: white;">KPX+</span> &amp; <span style="background-color: #4caf50; color: white;">NAVIGATOR</span> Arming without shortcut: ARM [User Code] E  <span style="background-color: #e91e63; color: white;">KPX+</span> &amp; <span style="background-color: #4caf50; color: white;">NAVIGATOR</span> Arming with shortcut: ARM E  <span style="background-color: #e91e63; color: white;">KPX+</span> Keypad Panic without shortcut: * [User Code] E  <span style="background-color: #4caf50; color: white;">NAVIGATOR</span> Keypad Panic without shortcut: EMERGENCY &gt; PANIC &gt; [User Code] E  <span style="background-color: #e91e63; color: white;">KPX+</span> Keypad Panic with shortcut: * E  <span style="background-color: #4caf50; color: white;">NAVIGATOR</span> Keypad Panic with shortcut: EMERGENCY &gt; PANIC</p>	KPX+	P62E enable/disable 1E ~ 6E as required	NAVIGATOR	P62E > enable/disable 1E ~ 6E as required	SMS*	P[MasterCode]E P[InstallerCode]E P62E 1E ~ 6E as required
KPX+	P62E enable/disable 1E ~ 6E as required						
NAVIGATOR	P62E > enable/disable 1E ~ 6E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P62E 1E ~ 6E as required						
P62E 7E	SIREN BURST ON AUTO EXCLUDE						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Siren burst on Auto Exclude enabled.</p> <p><b>RELATED OPTIONS</b> P60E 6E Auto Exclude zones.</p>	<p>This option allows the disabling of the 2 second siren burst at the end of Exit Time which indicates a zone/s has been Auto Excluded.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P62E 7E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P62E &gt; enable/disable 7E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P62E 7E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P62E 7E to enable/disable the option	NAVIGATOR	P62E > enable/disable 7E	SMS*	P[MasterCode]E P[InstallerCode]E P62E 7E
KPX+	P62E 7E to enable/disable the option						
NAVIGATOR	P62E > enable/disable 7E						
SMS*	P[MasterCode]E P[InstallerCode]E P62E 7E						
P62E 8E	EXIT TIME X10						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Exit Time x10 disabled.</p> <p><b>RELATED OPTIONS</b> P28E Exit Time.</p>	<p>This option multiplies the normal exit time by a factor of 10.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P62E 8E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P62E &gt; enable/disable 8E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P62E 8E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P62E 8E to enable/disable the option	NAVIGATOR	P62E > enable/disable 8E	SMS*	P[MasterCode]E P[InstallerCode]E P62E 8E
KPX+	P62E 8E to enable/disable the option						
NAVIGATOR	P62E > enable/disable 8E						
SMS*	P[MasterCode]E P[InstallerCode]E P62E 8E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	Default	
<b>P63E</b>	1E	Home Mode alarms to RESET output	ON
	2E	Home Mode alarms to STROBE	ON
	3E	Home Mode alarms to SONALERT	ON
	4E	Home Mode alarms to SIREN	OFF
	5E	Day Mode to RESET output	OFF
	6E	Day Mode to STROBE	OFF
	7E	Day Mode to keypad SONALERT	ON
	8E	Day Mode to SIREN	OFF

## P63E 1E-4E

### HOME MODE OUTPUT MAPPING

#### PROGRAM MODE LEVEL

Installer

#### FACTORY DEFAULT

1E, 2E, 3E ON.  
4E OFF.

#### RELATED OPTIONS

P64E 1E Brief Home alarm.

This option selects which outputs are triggered by alarms in Home Mode.

1E ON: Home Mode to Reset output  
2E ON: Home Mode to Strobe output  
3E ON: Home Mode to Keypad Sonalert output  
4E ON: Home Mode to Siren output

<b>KPX+</b>	P63E enable/disable 1E ~ 4E as required
<b>NAVIGATOR</b>	P63E > enable/disable 1E ~ 4E as required
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P63E 1E ~ 4E as required

Or use **NessXCEL** app

## P63E 5E-8E

### DAY MODE OUTPUT MAPPING

#### PROGRAM MODE LEVEL

Installer

#### FACTORY DEFAULT

7E ON.  
5E, 6E, 8E OFF

#### RELATED OPTIONS

P64E 2E Brief Day alarm.

For ZONE TO OUTPUT MAPPING for Armed & 24hr states – see options P54E – P59E, page 31

This option selects which outputs are triggered by alarms in Day Mode.

5E ON: Day Mode to Reset output  
6E ON: Day Mode to Strobe output, (If Brief Day Alarm is enabled, (P64E 2E), then this option sends day alarms to the AUX2 output).  
7E ON: Day Mode to Keypad Sonalert output  
8E ON: Day Mode to Siren output

<b>KPX+</b>	P63E enable/disable 5E ~ 8E as required
<b>NAVIGATOR</b>	P63E > enable/disable 5E ~ 8E as required
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P63E 5E ~ 8E as required

Or use **NessXCEL** app

Option No.	Description	Default	
<b>P64E</b>	1E	Brief Home Alarm	OFF
	2E	Brief Day Alarm	OFF
	3E	Home zones Entry Delay2	ON
	4E	Radio Key SIREN CHIRPS	OFF
	5E	[not used]	OFF
	6E	Strobe Flash on Home arm by radio	OFF
	7E	[not used]	OFF
	8E	[not used]	OFF

## P64E 1E

### BRIEF HOME MODE ALARM

#### PROGRAM MODE LEVEL

Installer

#### FACTORY DEFAULT

OFF: Brief Home Alarm disabled.

#### RELATED OPTIONS

P51E Set Home zones.  
P63E 1E-4E Home Mode output mapping

Alarms in Home Mode can either activate the programmed outputs for Siren Time duration (P29E) or they can activate the outputs for 2 seconds only.

NOTE: If Brief Home alarm is enabled, then Home alarms will not be reported by dialler.

<b>KPX+</b>	P64E 1E to enable/disable the option
<b>NAVIGATOR</b>	P64E > enable/disable 1E
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P64E 1E

Or use **NessXCEL** app

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

<b>P64E 2E</b>	<b>BRIEF DAY ALARM &amp; ENABLE TEMPORARY DAY ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Brief Day Alarm disabled.</p> <p><b>RELATED OPTIONS</b> P53E Assign Day zones. P63E 5E–8E Day Mode output mapping.</p>	<p>Alarms in Day Mode will activate the programmed outputs while the zone is unsealed or they can activate the outputs for 2 seconds only.</p> <p><b>This option also enables the TEMPORARY DAY ZONE feature. See page 29.</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P64E 2E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P64E &gt; enable/disable 2E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P64E 2E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P64E 2E to enable/disable the option	NAVIGATOR	P64E > enable/disable 2E	SMS*	P[MasterCode]E P[InstallerCode]E P64E 2E
KPX+	P64E 2E to enable/disable the option						
NAVIGATOR	P64E > enable/disable 2E						
SMS*	P[MasterCode]E P[InstallerCode]E P64E 2E						
<b>P64E 3E</b>	<b>HOME ZONES ENTRY DELAY 2</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Home zones all have Entry Delay2.</p> <p><b>RELATED OPTIONS</b> P27E Entry Delay Time 2. P51E Assign Home zones. P63E 1E–4E Home Mode output mapping.</p>	<p>Home zones can either have the delay types set by options P40E–P43E or they can all be assigned to have Entry Delay 2. This allows all Home zones to be programmed with the same entry delay time.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P64E 3E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P64E &gt; enable/disable 3E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P64E 3E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P64E 3E to enable/disable the option	NAVIGATOR	P64E > enable/disable 3E	SMS*	P[MasterCode]E P[InstallerCode]E P64E 3E
KPX+	P64E 3E to enable/disable the option						
NAVIGATOR	P64E > enable/disable 3E						
SMS*	P[MasterCode]E P[InstallerCode]E P64E 3E						
<b>P64E 4E</b>	<b>ARM/DISARM CHIRPS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: No siren chirps.</p> <p><b>RELATED OPTIONS</b> P68E 8E Quiet Chirps. P69E 5E Home Arm by Radio Key. P120E 2E Home Arm chirps. P120E 3E Radio Key AUX button arms Home Mode.</p>	<p>If this option is selected the Siren output will "Chirp" when the panel is armed and disarmed with the Keyswitch input, prox cards or Radio Keys. This option applies to <i>siren chirps</i>, the <i>strobe</i> output always flashes when arming/disarming by the above methods. (Home arming chirps are enabled separately by option P120E 2E).</p> <p>The siren output will make 1 Chirp on Arming, and 3 Chirps on Disarming.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P64E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P64E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P64E 4E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P64E 4E to enable/disable the option	NAVIGATOR	P64E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P64E 4E
KPX+	P64E 4E to enable/disable the option						
NAVIGATOR	P64E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P64E 4E						
<b>P64E 6E</b>	<b>STROBE FLASH ON HOME ARMING BY RADIO</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: No strobe.</p> <p><b>NOTES</b> This is not related to strobe flash on arming and disarming area 1 or 2 by radio key, which always flashes the strobe on arm and disarm.</p> <p><b>RELATED OPTIONS</b> P69E 5E Home Mode arming by radio key. P120E 2E Siren Chirp on Home Arming by Radio</p>	<p>This option enables a brief strobe flash when arming Home Mode by radio key or radio keypad. This applies to Home Mode arming only, disarming Home Mode by radio key never flashes the strobe.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P64E 6E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P64E &gt; enable/disable 6E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P64E 6E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P64E 6E to enable/disable the option	NAVIGATOR	P64E > enable/disable 6E	SMS*	P[MasterCode]E P[InstallerCode]E P64E 6E
KPX+	P64E 6E to enable/disable the option						
NAVIGATOR	P64E > enable/disable 6E						
SMS*	P[MasterCode]E P[InstallerCode]E P64E 6E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	ZONES 1–8 (D8 & D16)								ZONES 9–16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P65E	SUPERVISED ZONES																

P65E	SUPERVISED ZONES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> all OFF: No Supervision zones.</p> <p><b>NOTES</b> If Radio Supervision is enabled, P66E 5E off, then the supervision feature cannot be used as an inactivity monitor.</p> <p><b>RELATED OPTIONS</b> P66E 1E–4E Supervision Alerts. P66E 5E Wired Zone Supervision. P67E Zone Supervision Time. P92E 4E (D8) Report Supervision. P75E 12E (D16) Report Supervision.</p>	<p>Any zone 1-8 or 1-16 can be a Supervised Zone.</p> <p><b>Supervision for HARDWIRED ZONES</b> In operation, a Supervised Zone is subject to the Supervision Time (P67E). If the zone/s has not sealed or unsealed during the Supervision Time, then the programmed alerts will turn on (as programmed by P66E 1E-4E, P92E 4E or P75E 12E). Zone Supervision can be used as an "inactivity monitor" to sound an alert or send a dialler report if a zone has had no activity during a set period of time. (For example, to monitor an aged person's home).</p> <ul style="list-style-type: none"> <li>• A zone which is permanently in a sealed or unsealed state for the duration of Supervision Time will be treated as a Supervision alarm.</li> <li>• If P66E 5E is on, Zone Supervision acts on wired zones. If P66E 5E is off, Zone Supervision acts on radio zones.</li> <li>• Each Supervised zone has its own supervision timer.</li> <li>• Zone Supervision is independent of the armed state of the panel.</li> <li>• Zone Supervision can be temporarily disabled by Excluding the zone/s.</li> <li>• The zone which caused the Supervision alarm flashes on the keypad. Entering a valid code + E will reset Supervision alarms.</li> </ul> <p><b>Supervision for RADIO ZONES</b> The purpose of Radio Supervision is to verify the correct operation of Ness Radio PIRs. The Supervision signal from the Radio PIR tells the panel that the device has not been removed from radio range and is in working order. A non-SUPERVISION enabled Radio PIR will transmit signals to the panel only when it has detected an event. Obviously, there is no guaranteed signal period. In either case, when the allowed time limit is exceeded then a WARNING is first given (if programmed by P66E 3E), and then after 1 minute, the programmed RADIO SUPERVISION ALERTS are generated by the panel. P66E 5E must be off for supervision to work on radio zones.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white; text-align: center;">KPX+</td> <td>P65E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #00ff00; color: white; text-align: center;">NAVIGATOR</td> <td>P65E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P65E [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P65E [Zone Number] E to enable/disable zones	NAVIGATOR	P65E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P65E [Zone Number] E
KPX+	P65E [Zone Number] E to enable/disable zones						
NAVIGATOR	P65E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P65E [Zone Number] E						

## RADIO SUPERVISION OPERATION

The purpose of Radio Supervision is to verify the correct operation of Ness Radio PIRs. The Supervision signal from the Radio PIR tells the panel that the device has not been removed from radio range and is in working order.

A non-SUPERVISION enabled Radio PIR will transmit signals to the panel only when it has detected an event. Obviously, there is no guaranteed signal period.

In either case, when the allowed time limit is exceeded then a WARNING is first given (if programmed by P66E 3E), and then after 1 minute, the programmed RADIO SUPERVISION ALERTS are generated by the panel.

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

Option No.	Description	Default	
<b>P66E</b>	1E	Zone Supervision alarm to RESET output	OFF
	2E	Zone Supervision alarm to STROBE	OFF
	3E	Zone Supervision alarm to SONALERT	OFF
	4E	Zone Supervision alarm to SIREN	OFF
	5E	Enable WIRED ZONE supervision	OFF
	6E		OFF
	7E	Zone Supervision speedup x 6	OFF
	8E	Zone Supervision speedup x10	OFF

<b>P66E 1E</b>	<b>ZONE SUPERVISION ALERTS – RESET OUTPUT</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Supervision Reset output disabled.</p> <p><b>RELATED OPTIONS</b> P65E Supervised Zones.</p>	<p>Setting this option turns the Reset output ON when a SUPERVISED ZONE alert occurs. The Reset output will remain ON for the duration of the ALARM TIME (Set by Option P29E).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff0066; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P66E 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #008000; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P66E &gt; enable/disable 1E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P66E 1E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 0 2px;">NessXCEL</span> app</p>	KPX+	P66E 1E to enable/disable the option	NAVIGATOR	P66E > enable/disable 1E	SMS*	P[MasterCode]E P[InstallerCode]E P66E 1E
KPX+	P66E 1E to enable/disable the option						
NAVIGATOR	P66E > enable/disable 1E						
SMS*	P[MasterCode]E P[InstallerCode]E P66E 1E						
<b>P66E 2E</b>	<b>ZONE SUPERVISION ALERTS – STROBE OUTPUT</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Supervision Strobe output disabled.</p> <p><b>RELATED OPTIONS</b> P65E Supervised Zones.</p>	<p>Setting this option turns the Strobe output ON when a SUPERVISED ZONE alert occurs. The Strobe output will remain ON until the panel is disarmed.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff0066; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P66E 2E to enable/disable the option</td> </tr> <tr> <td style="background-color: #008000; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P66E &gt; enable/disable 2E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P66E 2E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 0 2px;">NessXCEL</span> app</p>	KPX+	P66E 2E to enable/disable the option	NAVIGATOR	P66E > enable/disable 2E	SMS*	P[MasterCode]E P[InstallerCode]E P66E 2E
KPX+	P66E 2E to enable/disable the option						
NAVIGATOR	P66E > enable/disable 2E						
SMS*	P[MasterCode]E P[InstallerCode]E P66E 2E						
<b>P66E 3E</b>	<b>ZONE SUPERVISION ALERTS – KEYPAD SONALERT</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Supervision Keypad Sonalert disabled.</p> <p><b>NOTES</b> When this option is turned ON, it delays the operation of all other selected Supervision outputs by one minute.</p> <p><b>RELATED OPTIONS</b> P65E Supervised Zones.</p>	<p>Setting this option turns the Keypad Sonalert ON when a SUPERVISED ZONE alert occurs. The Keypad Sonalert remains ON until <i>any</i> keypad key is pressed.</p> <p>Also, turning this option ON makes all Supervision outputs delayed by one minute.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff0066; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P66E 3E to enable/disable the option</td> </tr> <tr> <td style="background-color: #008000; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P66E &gt; enable/disable 3E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P66E 3E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 0 2px;">NessXCEL</span> app</p>	KPX+	P66E 3E to enable/disable the option	NAVIGATOR	P66E > enable/disable 3E	SMS*	P[MasterCode]E P[InstallerCode]E P66E 3E
KPX+	P66E 3E to enable/disable the option						
NAVIGATOR	P66E > enable/disable 3E						
SMS*	P[MasterCode]E P[InstallerCode]E P66E 3E						
<b>P66E 4E</b>	<b>ZONE SUPERVISION ALERTS – SIREN OUTPUT</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Supervision Siren output disabled.</p> <p><b>RELATED OPTIONS</b> P65E Supervised Zones.</p>	<p>Setting this option turns the Siren output ON when a SUPERVISED ZONE alert occurs. The Siren output will remain ON for the duration of the ALARM TIME (Set by Option P29E).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff0066; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P66E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #008000; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P66E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P66E 4E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 0 2px;">NessXCEL</span> app</p>	KPX+	P66E 4E to enable/disable the option	NAVIGATOR	P66E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P66E 4E
KPX+	P66E 4E to enable/disable the option						
NAVIGATOR	P66E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P66E 4E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

<b>P66E 5E</b>	<b>ENABLE WIRED ZONE SUPERVISION</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Radio Zone Supervision enabled.</p> <p><b>RELATED OPTIONS</b> P65E Supervised Zones. P66E 1E–4E Supervision Alerts. P66E 5E Wired Zone Supervision. P67E Zone Supervision Time. P92E 4E (D8) Report Supervision. P75E 12E (D16) Report Supervision.</p>	<p>This option enables Wired Zone Supervision or Radio Zone Supervision.</p> <p>Option OFF: Radio Zone Supervision is enabled</p> <p>Option ON: Wired Zone Supervision is enabled</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P66E 5E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P66E &gt; enable/disable 5E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P66E 5E</td> </tr> </table> <p>Or use <span style="background-color: #333; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P66E 5E to enable/disable the option	NAVIGATOR	P66E > enable/disable 5E	SMS*	P[MasterCode]E P[InstallerCode]E P66E 5E
KPX+	P66E 5E to enable/disable the option						
NAVIGATOR	P66E > enable/disable 5E						
SMS*	P[MasterCode]E P[InstallerCode]E P66E 5E						
<b>P66E 7E</b>	<b>SUPERVISION TIME SPEEDUP X6</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Supervision Time normal.</p> <p><b>RELATED OPTIONS</b> P67E Supervision Time. P66E 8E Supervision Time speedup x10.</p>	<p>Enable this this option to speed up the Supervision Time by 6. For instance if P67E is set to 1 hour (60 minutes), then this option will reduce it to 10 minutes. (i.e., 60 divided by 6).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P66E 7E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P66E &gt; enable/disable 7E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P66E 7E</td> </tr> </table> <p>Or use <span style="background-color: #333; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P66E 7E to enable/disable the option	NAVIGATOR	P66E > enable/disable 7E	SMS*	P[MasterCode]E P[InstallerCode]E P66E 7E
KPX+	P66E 7E to enable/disable the option						
NAVIGATOR	P66E > enable/disable 7E						
SMS*	P[MasterCode]E P[InstallerCode]E P66E 7E						
<b>P66E 8E</b>	<b>SUPERVISION TIME SPEEDUP X10</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Supervision Time normal.</p> <p><b>RELATED OPTIONS</b> P67E Supervision Time. P66E 7E Supervision Time speedup x6.</p>	<p>Enable this option to speed up the Supervision Time by 10. For instance if P67E is set to 1 hour (60 minutes), then this option will reduce it to 6 minutes. (i.e., 60 divided by 10).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P66E 8E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P66E &gt; enable/disable 8E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P66E 8E</td> </tr> </table> <p>Or use <span style="background-color: #333; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P66E 8E to enable/disable the option	NAVIGATOR	P66E > enable/disable 8E	SMS*	P[MasterCode]E P[InstallerCode]E P66E 8E
KPX+	P66E 8E to enable/disable the option						
NAVIGATOR	P66E > enable/disable 8E						
SMS*	P[MasterCode]E P[InstallerCode]E P66E 8E						



NOTE: If P66E 7E and 8E are both ON then the Supervision time is sped up by 60. For instance if P67E is set to 1 hour (60 minutes), then this option will reduce it to 1 minute. (i.e., 60 divided by 60).

<b>P67E</b>	<b>SUPERVISION TIME</b>						
<p><b>PROGRAM MODE LEVEL</b> User, Installer</p> <p><b>FACTORY DEFAULT</b> 24 hours or 24 minutes.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>Supervision time for wired or wireless zones must be 2 minutes or greater for correct operation.</li> <li>A setting of less than 3 hours for radio supervision is not recommended.</li> <li>The Supervision timer is reset on exit from Installer Program Mode and on Arm or Disarm.</li> </ul> <p><b>RELATED OPTIONS</b> P65E Supervised Zones. P66E 1E–4E Supervision Alerts. P66E 7E–8E Supervision Time Speed-up.</p>	<p>SUPERVISION TIME sets the time interval before an inactive Supervised Zone triggers a Supervision alarm.</p> <p>The SUPERVISION TIME setting is from 01 to 24 hours.</p> <p>For timing up to 24 minutes, set P66E 7E &amp; 8E on.</p> <p>For timing up to 24 hours, set P66E 7E &amp; 8E off.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P67E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P67E &gt; Enter new time</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P67E [NewTime]E</td> </tr> </table> <p>Or use <span style="background-color: #333; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P67E [New Time] E	NAVIGATOR	P67E > Enter new time	SMS*	P[MasterCode]E P67E [NewTime]E
KPX+	P67E [New Time] E						
NAVIGATOR	P67E > Enter new time						
SMS*	P[MasterCode]E P67E [NewTime]E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



# PROGRAMMING

Option No.	Description	Default	
<b>P68E</b>	1E	Double Press Radio Panic	OFF
	2E	Auto Re-Arm	OFF
	3E	Long Radio Message	ON
	4E	"OK/READY" Display	OFF
	5E	Radio Arming "unsealed" warning	OFF
	6E	24hr Zone Fire Siren sound	OFF
	7E	Single Shot strobe on Arm by R/Key	OFF
	8E	Quiet chirps on radio Arm/Disarm	OFF

<b>P68E 1E</b>	<b>DOUBLE PRESS RADIO PANIC</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Single Press Radio Panic.</p>	<p>Setting this option ON enables Double Press Panic for Ness Radio Keys, if fitted. The panel will look for two radio Panic signals in a row to sound the Panic alarm.</p> <p><b>OPERATION.</b> On the Radio Key, press and hold Panic until the transmit LED turns on. Wait until the LED turns off then release the Panic button and immediately press and hold again until the transmit LED turns on a second time.</p> <p>This requirement meets regulations in some states of Australia.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P68E 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P68E &gt; enable/disable 1E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P68E 1E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P68E 1E to enable/disable the option	NAVIGATOR	P68E > enable/disable 1E	SMS*	P[MasterCode]E P[InstallerCode]E P68E 1E
KPX+	P68E 1E to enable/disable the option						
NAVIGATOR	P68E > enable/disable 1E						
SMS*	P[MasterCode]E P[InstallerCode]E P68E 1E						
<b>P68E 2E</b>	<b>AUTO RE-ARM</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Auto Re-Arm disabled.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>Auto re-arm will not take place if the panel is disarmed during the exit delay time. This allows you to disarm immediately if you change your mind about leaving the premises.</li> <li>Auto re-arm operates independently on both Areas 1 and 2.</li> </ul> <p><b>RELATED OPTIONS</b> P26E Entry Delay Time1 sets the "time before re-arming". For example, say P26E is 30sec, if you disarm the panel and do not enter the premises, then the panel will Auto Re-arm in 30 seconds.</p>	<p>When this option is enabled, Auto Re-Arm checks that you have entered the premises after disarming.</p> <p>After disarming, the panel will wait for the duration set for Entry Delay. If all zones remain sealed 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.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P68E 2E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P68E &gt; enable/disable 2E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P68E 2E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P68E 2E to enable/disable the option	NAVIGATOR	P68E > enable/disable 2E	SMS*	P[MasterCode]E P[InstallerCode]E P68E 2E
KPX+	P68E 2E to enable/disable the option						
NAVIGATOR	P68E > enable/disable 2E						
SMS*	P[MasterCode]E P[InstallerCode]E P68E 2E						
<b>P68E 3E</b>	<b>LONG RADIO MESSAGE</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Long Radio Message.</p> <p><b>NOTES</b> Some models of Ness detectors and radio keys without encryption will not work with this setting on.</p> <p><b>If a radio device is not recognised when you try to enrol it on this control panel, turn this option off then attempt to enrol the radio device.</b></p>	<p>Setting this option ON enables Long Radio Message for Radio Keys and Radio Devices. Radio detectors will now need the encryption link turned on. Enabling Long Radio Message gives greater protection against coding clashes with third party radio signals.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P68E 3E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P68E &gt; enable/disable 3E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P68E 3E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P68E 3E to enable/disable the option	NAVIGATOR	P68E > enable/disable 3E	SMS*	P[MasterCode]E P[InstallerCode]E P68E 3E
KPX+	P68E 3E to enable/disable the option						
NAVIGATOR	P68E > enable/disable 3E						
SMS*	P[MasterCode]E P[InstallerCode]E P68E 3E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

<b>P68E 4E</b>	<b>"OK/READY" DISPLAY OPTION</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: OK/READY ignores delay zones.</p>	<p>When the option is OFF, the OK/READY icon will display even if Entry Delay zones are unsealed. This is useful in cases where the keypad location is covered by a PIR with entry delay.</p> <p>When this option is ON, all zones including Entry Delay zones must be sealed for the keypad/s to display the OK/READY icon.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P68E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P68E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P68E 4E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P68E 4E to enable/disable the option	NAVIGATOR	P68E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P68E 4E
KPX+	P68E 4E to enable/disable the option						
NAVIGATOR	P68E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P68E 4E						
<b>P68E 5E</b>	<b>RADIO KEY ARMING, UNSEALED ZONE WARNING</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Radio Key siren warning disabled.</p>	<p>Setting this option ON allows a 2 second SIREN warning if there is an unsealed zone in an Area Armed by a Radio Key.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P68E 5E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P68E &gt; enable/disable 5E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P68E 5E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P68E 5E to enable/disable the option	NAVIGATOR	P68E > enable/disable 5E	SMS*	P[MasterCode]E P[InstallerCode]E P68E 5E
KPX+	P68E 5E to enable/disable the option						
NAVIGATOR	P68E > enable/disable 5E						
SMS*	P[MasterCode]E P[InstallerCode]E P68E 5E						
<b>P68E 6E</b>	<b>24HR ZONE FIRE SIREN SOUND</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: No 24hr Fire siren sound.</p>	<p>This option changes the siren sound when a 24hr zone is triggered. The keypad key sequence for FIRE (3 E) always outputs the FIRE siren sound.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P68E 6E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P68E &gt; enable/disable 6E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P68E 6E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P68E 6E to enable/disable the option	NAVIGATOR	P68E > enable/disable 6E	SMS*	P[MasterCode]E P[InstallerCode]E P68E 6E
KPX+	P68E 6E to enable/disable the option						
NAVIGATOR	P68E > enable/disable 6E						
SMS*	P[MasterCode]E P[InstallerCode]E P68E 6E						
<b>P68E 7E</b>	<b>SINGLE SHOT STROBE ON ARMING</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Strobe Flash on very ARM signal.</p>	<p>This option provides a choice of operation for the strobe flash when arming by a Radio Key. When this option is OFF the strobe will flash every time an ARM signal is received from a valid Radio Key. If the panel is armed any subsequent ARM signals will flash the strobe light. The panel will not change state because it already armed.</p> <p>When this option is ON the strobe will flash only when the panel arms. Any subsequent ARM signals will be ignored.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P68E 7E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P68E &gt; enable/disable 7E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P68E 7E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P68E 7E to enable/disable the option	NAVIGATOR	P68E > enable/disable 7E	SMS*	P[MasterCode]E P[InstallerCode]E P68E 7E
KPX+	P68E 7E to enable/disable the option						
NAVIGATOR	P68E > enable/disable 7E						
SMS*	P[MasterCode]E P[InstallerCode]E P68E 7E						
<b>P68E 8E</b>	<b>QUIET CHIRPS ON ARM/DISARM</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Quiet Chirps disabled.</p> <p><b>RELATED OPTIONS</b> P64E 4E Radio Key Chirps. P69E 5E Home Arm by Radio Key. P120E 2E Home Arm chirps. P120E 3E Radio Key AUX / arms Home Monitor P162E Chirp Siren Volume</p>	<p>This quietyens the siren chirps that are made whenever keyswitch or radio key Arming or Disarming is used. (Arm/Disarm Chirps must be enabled at P64E 4E).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P68E 8E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P68E &gt; enable/disable 8E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P68E 8E</td> </tr> </table> <p>Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P68E 8E to enable/disable the option	NAVIGATOR	P68E > enable/disable 8E	SMS*	P[MasterCode]E P[InstallerCode]E P68E 8E
KPX+	P68E 8E to enable/disable the option						
NAVIGATOR	P68E > enable/disable 8E						
SMS*	P[MasterCode]E P[InstallerCode]E P68E 8E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

Option No.	Description	Default	
<b>P69E</b>	1E	Flash strobe on medical alert	OFF
	2E	[not used]	OFF
	3E	Quiet Home Siren	OFF
	4E	6 beeps on Arming	OFF
	5E	Home arm by radio key ON/OFF	OFF
	6E	Disable Mains Fail Alarm	OFF
	7E	Exit BEEPS - Full Arm	OFF
	8E	Exit BEEPS - Home Mode	OFF

<b>P69E 1E</b>	<b>FLASH STROBE ON MEDICAL ALARM</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p>	<p>This option enables the strobe output when a medical alarm is triggered. This is to make the house visible to the ambulance. The strobe will reset after 72 hours or when a valid code is entered.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P69E 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P69E &gt; enable/disable 1E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P69E 1E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P69E 1E to enable/disable the option	NAVIGATOR	P69E > enable/disable 1E	SMS*	P[MasterCode]E P[InstallerCode]E P69E 1E
KPX+	P69E 1E to enable/disable the option						
NAVIGATOR	P69E > enable/disable 1E						
SMS*	P[MasterCode]E P[InstallerCode]E P69E 1E						
<b>P69E 3E</b>	<b>QUIET HOME SIREN</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Normal siren sound in Home Mode.</p> <p><b>NOTES</b> This does not affect the RESET output.</p>	<p>This option selects the 'Quiet Siren' sound in Home Mode. The Quiet Siren sound is a continuous "beep beep beep" sound rather than the normal siren sound.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P69E 3E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P69E &gt; enable/disable 3E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P69E 3E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P69E 3E to enable/disable the option	NAVIGATOR	P69E > enable/disable 3E	SMS*	P[MasterCode]E P[InstallerCode]E P69E 3E
KPX+	P69E 3E to enable/disable the option						
NAVIGATOR	P69E > enable/disable 3E						
SMS*	P[MasterCode]E P[InstallerCode]E P69E 3E						
<b>P69E 4E</b>	<b>6 BEEPS ON ARMING</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Keypad gives 3 beeps on Arming.</p> <p><b>NOTES</b> The keypad beeps on Arm/Disarm when Arming/Disarming by keypad, keyswitch or by Radio Key.</p>	<p>Normally the keypad/s onboard sonalert/beeper gives 3 beeps when the panel is armed. Turning this option ON will give 6 keypad beeps when Arming.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P69E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P69E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P69E 4E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P69E 4E to enable/disable the option	NAVIGATOR	P69E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P69E 4E
KPX+	P69E 4E to enable/disable the option						
NAVIGATOR	P69E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P69E 4E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

P69E 5E	HOME ARMING BY RADIO KEY ON/OFF BUTTONS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Radio Keys cannot Arm Home Mode.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Radio Key Home Arming will work only if one or more zones have been programmed as Home Zones (P51E).</li> <li>• When using a Radio Keypad to Home arm, ensure that the ARM ONLY option is OFF for the USER CODE on the panel. Otherwise further Home E keypresses on the Radio keypad could AREA arm the panel.</li> </ul> <p><b>RELATED OPTIONS</b></p> <p>P51E Program Home zones. P64E 1E Brief Home alarm. P64E 6E Strobe Flash on Home arm by radio key P69E 3E Quiet Home siren. P69E 5E Home Arm by Radio Key. P120E 2E Home arm chirps by Radio Key. P120E 3E Radio Key AUX arms Home Monitor. P120E 6E Smart Beeps.</p>	<p>Setting this option on allows Home Mode arming by Radio Key ON or OFF buttons. Note: This is independent of Home arming by AUX button if using the RK4 radio key.</p> <p>Operation:</p> <ul style="list-style-type: none"> <li>- Press the Radio Key OFF button twice within 4 seconds.</li> <li>or.... - Press the Radio Key ON button twice within 5 seconds.</li> </ul> <p>See page 29 for Home operation.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P69E 5E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P69E &gt; enable/disable 5E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P69E 5E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P69E 5E to enable/disable the option	NAVIGATOR	P69E > enable/disable 5E	SMS*	P[MasterCode]E P[InstallerCode]E P69E 5E
KPX+	P69E 5E to enable/disable the option						
NAVIGATOR	P69E > enable/disable 5E						
SMS*	P[MasterCode]E P[InstallerCode]E P69E 5E						
P69E 6E	DISABLE MAINS FAIL ALARM						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Mains Fail alarm normal.</p> <p><b>NOTES</b></p> <p>This does not affect Dialler mains fail reporting or saving to the History memory or operation of the Mains Fail output on the Output Expander. Does not apply to Navigator keypad.</p>	<p>When set ON, a Mains Fail alarm is: a) Not displayed on the keypad b) Does not give warning beeps c) Is not saved to MEMORY and the MEMORY display does not flash.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P69E 6E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P69E &gt; enable/disable 6E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P69E 6E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P69E 6E to enable/disable the option	NAVIGATOR	P69E > enable/disable 6E	SMS*	P[MasterCode]E P[InstallerCode]E P69E 6E
KPX+	P69E 6E to enable/disable the option						
NAVIGATOR	P69E > enable/disable 6E						
SMS*	P[MasterCode]E P[InstallerCode]E P69E 6E						
P69E 7E	BEEPS DURING EXIT DELAY - FULLY ARMED MODE						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> Exit Beeps OFF.</p> <p><b>RELATED OPTIONS</b> P28E Exit Delay Time.</p>	<p>When set ON, this option gives an audible warning during Exit Delay.</p> <p>The keypad/s will beep slowly during Exit Delay when the panel is in exit delay (armed by any Area). When the Exit Time has 16 to 20 seconds remaining, the beeps will change to a faster double-beep for the remainder of the Exit Time. The end of Exit Time is announced by 3 beeps.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P69E 7E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P69E &gt; enable/disable 7E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P69E 7E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P69E 7E to enable/disable the option	NAVIGATOR	P69E > enable/disable 7E	SMS*	P[MasterCode]E P[InstallerCode]E P69E 7E
KPX+	P69E 7E to enable/disable the option						
NAVIGATOR	P69E > enable/disable 7E						
SMS*	P[MasterCode]E P[InstallerCode]E P69E 7E						
P69E 8E	BEEPS DURING EXIT DELAY - HOME MODE						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> Home Exit Beeps OFF.</p> <p><b>RELATED OPTIONS</b> P28E Exit Delay Time</p> <p><b>NOTES</b></p> <ol style="list-style-type: none"> <li>1. Exit beeps cannot be stopped (i.e. by pressing a key on the keypad).</li> <li>2. If another event causes a different keypad beep, the exit beeps resume once the event beeps are finished.</li> </ol>	<p>When set ON, This option gives an audible warning during Home Mode Exit Delay.</p> <p>The sonalert will give a fast double-beep during Exit Delay when the panel is in Home Mode Exit Delay. The end of Exit Time is announced by 3 beeps.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P69E 8E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P69E &gt; enable/disable 8E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P69E 8E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P69E 8E to enable/disable the option	NAVIGATOR	P69E > enable/disable 8E	SMS*	P[MasterCode]E P[InstallerCode]E P69E 8E
KPX+	P69E 8E to enable/disable the option						
NAVIGATOR	P69E > enable/disable 8E						
SMS*	P[MasterCode]E P[InstallerCode]E P69E 8E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

<b>P70E P71E</b>	<b>PHONE NUMBER 1 FOR CID REPORTING PHONE NUMBER 2 FOR CID REPORTING</b>
<b>RELATED OPTIONS</b> P170E Phone No 1 for CID Reporting P171E Phone No 1 for CID Reporting	Changed option numbers in this version. These options are now P170E and P171E Page 47
<b>P80E</b>	<b>PHONE NUMBER FOR CID TEST CALLS</b>
<b>RELATED OPTIONS</b> P172E Phone No for CID Test Calls	Changed option number in this version. This option is now P172E Page 47

Option No.	Description	Default
P72E	ACCOUNT NUMBER 1	0000
P73E	ACCOUNT NUMBER 2	0000

<b>P72E</b>	<b>ACCOUNT NUMBER 1 &amp; 2</b>																		
<b>PROGRAM MODE LEVEL</b> Installer	Account numbers for identifying the panel to the Central Station. Area 1 Open/Close reports will report on Account No.1 and Area 2 Open/Close reports will report on Account No.2.  Zone Alarms can be assigned to report on either Account Number as set by Option P79E. All miscellaneous events (eg. Tamperers, Mains Fail) will report on Account No. 1																		
<b>FACTORY DEFAULT</b> P72E Account No.1: 0000 P73E Account No.2: 0000																			
<b>RELATED OPTIONS</b> P79E Account No.2 zones	<table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white; text-align: center;"><b>KPX+</b></td> <td>P72E [Account Number] E P73E [Account Number] E</td> </tr> <tr> <td style="background-color: #00ff00; color: white; text-align: center;"><b>NAVIGATOR</b></td> <td>P72E &gt; Enter Account Number P73E &gt; Enter Account Number</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center;"><b>SMS*</b></td> <td>P[MasterCode]E P72E [Account Number]E P[MasterCode]E P73E [Account Number]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	P72E [Account Number] E P73E [Account Number] E	<b>NAVIGATOR</b>	P72E > Enter Account Number P73E > Enter Account Number	<b>SMS*</b>	P[MasterCode]E P72E [Account Number]E P[MasterCode]E P73E [Account Number]E												
<b>KPX+</b>	P72E [Account Number] E P73E [Account Number] E																		
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<b>SMS*</b>	P[MasterCode]E P72E [Account Number]E P[MasterCode]E P73E [Account Number]E																		
<b>HEX ACCOUNT NUMBERS USING <span style="background-color: #00ff00; color: white; padding: 2px;">NAVIGATOR</span> KEYPAD</b>	<b>HEX ACCOUNT NUMBERS USING <span style="background-color: #ff00ff; color: white; padding: 2px;">KPX+</span> KEYPAD</b>																		
Navigator keypad provides buttons for entering Hex digits B, C, D, E, F in the P72E option.	Dialler client codes can be entered in Hexadecimal as required by some central stations. Use the following keys to enter the hex digits B, C, D, E or F.																		
	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>HEX DIGIT</th> <th>KPX+ KEY</th> <th>DISPLAYED AS</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>* Key</td> <td>11</td> </tr> <tr> <td>C</td> <td>ARM Key</td> <td>12</td> </tr> <tr> <td>D</td> <td>HOME Key</td> <td>13</td> </tr> <tr> <td>E</td> <td>EXCLUDE Key</td> <td>14</td> </tr> <tr> <td>F</td> <td>MEMORY key</td> <td>15</td> </tr> </tbody> </table>	HEX DIGIT	KPX+ KEY	DISPLAYED AS	B	* Key	11	C	ARM Key	12	D	HOME Key	13	E	EXCLUDE Key	14	F	MEMORY key	15
HEX DIGIT	KPX+ KEY	DISPLAYED AS																	
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F	MEMORY key	15																	

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

SMS Option No.	Description	Default
P170E	PHONE NUMBER 1 For CID Reporting	
P171E	PHONE NUMBER 2 For CID Reporting	
P172E	PHONE NUMBER for CID Test Calls	

P170E	PHONE NUMBER 1 FOR CID REPORTING						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> No telephone numbers.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Telephone numbers can be up to 20 digits long.</li> </ul> <p><b>RELATED OPTIONS</b> P87E 1E Alternate Primary/Secondary telephone numbers. P86E 1E Disable dialler. P86E 2E Enable Contact ID reporting</p>	<p>Primary Telephone number for Contact ID reports to a central station.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P170E [New Phone Number]E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P170E &gt; [New Phone Number]E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P170E [New Phone Number]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p> <p>To delete a telephone number, enter the MEMORY key in place of the telephone number. Example, to delete CID Telephone Number 1 press: P170E MEMORY E</p>	KPX+	P170E [New Phone Number]E	NAVIGATOR	P170E > [New Phone Number]E	SMS*	P[MasterCode]E P[InstallerCode]E P170E [New Phone Number]E
KPX+	P170E [New Phone Number]E						
NAVIGATOR	P170E > [New Phone Number]E						
SMS*	P[MasterCode]E P[InstallerCode]E P170E [New Phone Number]E						
P171E	PHONE NUMBER 2 FOR CID REPORTING						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> No telephone numbers.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Telephone numbers can be up to 20 digits long.</li> </ul> <p><b>RELATED OPTIONS</b> P87E 1E Alternate Primary/Secondary telephone numbers. P86E 1E Disable dialler. P86E 2E Enable Contact ID reporting</p>	<p>Secondary Telephone number for Contact ID reports to a central station.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P171E [New Phone Number]E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P171E &gt; [New Phone Number]E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P171E [New Phone Number]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p> <p>To delete a telephone number, enter the MEMORY key in place of the telephone number. Example, to delete CID Telephone Number 2 press: P171E MEMORY E</p>	KPX+	P171E [New Phone Number]E	NAVIGATOR	P171E > [New Phone Number]E	SMS*	P[MasterCode]E P[InstallerCode]E P171E [New Phone Number]E
KPX+	P171E [New Phone Number]E						
NAVIGATOR	P171E > [New Phone Number]E						
SMS*	P[MasterCode]E P[InstallerCode]E P171E [New Phone Number]E						
P172E	PHONE NUMBER FOR CID TEST CALLS						
<p><b>RELATED OPTIONS</b> P87E 1E Alternate Primary/Secondary telephone numbers. P86E 1E Disable dialler. P86E 2E Enable Contact ID reporting P89E 1E Enable Test Calls</p>	<p>The phone number for Contact ID TEST reports to a central station. This is required if your central stations uses a dedicated phone number for test calls. If this number is blank and test calls are enabled then the primary CID phone number P170E is used.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P172E [New Phone Number]E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P172E &gt; [New Phone Number]E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P172E [New Phone Number]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p> <p>To delete a telephone number, enter the MEMORY key in place of the telephone number. Example, to delete the Test Call Telephone Number 1 press: P172E MEMORY E</p>	KPX+	P172E [New Phone Number]E	NAVIGATOR	P172E > [New Phone Number]E	SMS*	P[MasterCode]E P[InstallerCode]E P172E [New Phone Number]E
KPX+	P172E [New Phone Number]E						
NAVIGATOR	P172E > [New Phone Number]E						
SMS*	P[MasterCode]E P[InstallerCode]E P172E [New Phone Number]E						

**SPECIAL CHARACTERS USING NAVIGATOR KEYPAD**

Navigator keypad provides buttons for entering Pause, Star and Hash.

**SPECIAL CHARACTERS USING KPX+ KEYPAD**

If required, pauses, \* (star) or # (hash) VF digits can be included in the dialling sequence by using the keys in the table below.

SPECIAL CHARACTER	KEY ENTRY	KEYPAD DISPLAY
PAUSE (1.6sec)	ARM Key	12
* (Star)	HOME Key	10
# (Hash)	EXCLUDE Key	11

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



# PROGRAMMING

10 Phone numbers are provided for reporting alarms by SMS messaging to 10 individual persons/phones.



Option No.	Description	Default
P180E	PHONE NUMBER 1 for all SMS Alarm & Status Reports	
P181E	PHONE NUMBER 2 for all SMS Alarm & Status Reports	
P182E	PHONE NUMBER 3 for all SMS Alarm & Status Reports	
P183E	PHONE NUMBER 4 for all SMS Alarm & Status Reports	
P184E	PHONE NUMBER 5 for all SMS Alarm & Status Reports	
P185E	PHONE NUMBER 6 for all SMS Alarm & Status Reports	
P186E	PHONE NUMBER 7 for all SMS Alarm & Status Reports	
P187E	PHONE NUMBER 8 for all SMS Alarm & Status Reports	
P188E	PHONE NUMBER 9 for all SMS Alarm & Status Reports	
P189E	PHONE NUMBER 10 for all SMS Alarm & Status Reports	

P180E ~ P189E	PHONE NUMBERS 1 TO 10 FOR ALL SMS REPORTS						
<p><b>PROGRAM MODE LEVEL</b> User</p> <p><b>FACTORY DEFAULT</b> No telephone numbers.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Telephone numbers can be up to 20 digits long.</li> <li>• Mobile numbers take the format 04xx xxx xxx without spaces.</li> </ul> <p><b>RELATED OPTIONS</b></p> <p>P86E 1E Disable Dialler            P190E Report zone alarms by SMS            P191E Report misc alarms by SMS            P192E Report zone restores by SMS            P193E Report misc restores by SMS            P194E Report Open/Close by SMS</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• If no mobile phone numbers are programmed then SMS reporting is disabled, however acknowledgement (ACK) texts are sent in reply to an SMS command. eg, If you arm the panel by SMS, you will receive an ACK reply even if no numbers are programmed here.</li> <li>• If P86E 1E Disable Dialler is ON the panel will not send any SMS messages (no alarm reports or ACK replies). See page 19 for SMS messaging examples.</li> </ul>	<p>Phone Numbers 1 to 10 for reporting of various alarms by SMS messaging.</p> <p>Note that all SMS phone numbers are User programmable.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff00ff; color: white; text-align: center;">KPX+</td> <td>PxxxE [New Phone Number]E</td> </tr> <tr> <td style="background-color: #00ff00; color: white; text-align: center;">NAVIGATOR</td> <td>PxxxE &gt; [New Phone Number]E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E PxxxE [New Phone Number]E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p> <p>To delete a telephone number, enter the MEMORY key in place of the telephone number.            Example, to delete SMS Telephone Number 1 press: P180E MEMORY E</p>	KPX+	PxxxE [New Phone Number]E	NAVIGATOR	PxxxE > [New Phone Number]E	SMS*	P[MasterCode]E P[InstallerCode]E PxxxE [New Phone Number]E
KPX+	PxxxE [New Phone Number]E						
NAVIGATOR	PxxxE > [New Phone Number]E						
SMS*	P[MasterCode]E P[InstallerCode]E PxxxE [New Phone Number]E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	ZONES 1–8 (D8 & D16)								ZONES 9–16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P74E	REPORT ZONE ALARMS by CID	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P76E	REPORT ZONE RESTORALS by CID	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P190E	REPORT ZONE ALARMS by SMS	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P192E	REPORT ZONE RESTORALS by SMS	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P78E	MULTIPLE ZONE ALARMS																
P79E	ACCOUNT NUMBER 2 ZONES																

<b>P74E, P190E</b>	<b>REPORT ZONE ALARMS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All ON: All zones report Alarms.</p>	<p>Select which zones will send Alarm reports to the Central Station in CID format or by SMS with the flexibility to choose which zones are reported in each format.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td>PxxE [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td>PxxE &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; padding: 2px;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: #2c4e64; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	PxxE [Zone Number] E to enable/disable zones	NAVIGATOR	PxxE > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E
KPX+	PxxE [Zone Number] E to enable/disable zones						
NAVIGATOR	PxxE > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E						
<b>P76E, P192E</b>	<b>REPORT ZONE RESTORALS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All ON: All zones report Restorals.</p> <p><b>RELATED OPTIONS</b> P82E 1E Send Restoral immediately. P82E 2E Send Restoral after siren time. P82E 3E Send Restoral on Disarm &amp; seal. P82E 4E Send Restoral on Disarm always.</p>	<p>This option selects which zone inputs will send Restoral reports to the Central Station or SMS. Only zones that have previously sent an Alarm will send a Restoral.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td>PxxE [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td>PxxE &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; padding: 2px;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: #2c4e64; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	PxxE [Zone Number] E to enable/disable zones	NAVIGATOR	PxxE > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E
KPX+	PxxE [Zone Number] E to enable/disable zones						
NAVIGATOR	PxxE > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E						
<b>P78E</b>	<b>REPORT MULTIPLE ZONE ALARMS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> No zones report Multiple Alarms.</p> <p><b>NOTES</b> Only zones that have previously sent an Alarm will send a Restoral.</p> <p><b>RELATED OPTIONS</b> P89E 4E Swinger shutdown.</p>	<p>Zones selected for Multiple Zone Alarms will report each time the zone alarms and without a restore being sent. The number of reports is a maximum of 15. The number of alarms sent for each Multiple Zone Alarm can be reduced to 3 by using the swinger shutdown option P89E 4E.</p> <p>Zones not selected report only once, until reset by an opening or a valid code.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td>P78E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td>P78E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; padding: 2px;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P78E [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: #2c4e64; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P78E [Zone Number] E to enable/disable zones	NAVIGATOR	P78E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P78E [Zone Number] E
KPX+	P78E [Zone Number] E to enable/disable zones						
NAVIGATOR	P78E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P78E [Zone Number] E						
<b>P79E</b>	<b>ACCOUNT NO.2 ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> None</p>	<p>Zones selected to be Account No.2 zones will report their Alarms, Restorals and Excludes on Client code 2.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; padding: 2px;">KPX+</td> <td>P79E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; padding: 2px;">NAVIGATOR</td> <td>P79E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; padding: 2px;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P79E [Zone Number] E</td> </tr> </table> <p>Or use <span style="background-color: #2c4e64; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P79E [Zone Number] E to enable/disable zones	NAVIGATOR	P79E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P79E [Zone Number] E
KPX+	P79E [Zone Number] E to enable/disable zones						
NAVIGATOR	P79E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P79E [Zone Number] E						

KPX+ **PRO TIP**  
When selecting zones, **0 E** selects all zones, **MEMORY E** deselects all zones

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

	ALARM DEFAULT	RESTORAL DEFAULT	D8 by CID		D16 by CID		D8/D16 by SMS	
			ALARM	RESTORAL	ALARM	RESTORAL	ALARM	RESTORAL
Duress		ON	P75E 1E	P77E 1E	P75E 1E	P77E 1E	P191E 1E	P193E 1E
Medical		ON	P75E 2E	P77E 2E	P75E 2E	P77E 2E	P191E 2E	P193E 2E
KP Panic & KS Panic	ON	ON	P75E 3E	P77E 3E	P75E 3E	P77E 3E	P191E 3E	P193E 3E
Fire		ON	P75E 4E	P77E 4E	P75E 4E	P77E 4E	P191E 4E	P193E 4E
Panel tamper	ON	ON	P75E 5E	P77E 5E	P75E 5E	P77E 5E	P191E 5E	P193E 5E
External tamper	ON	ON	P75E 6E	P77E 6E	P75E 6E	P77E 6E	P191E 6E	P193E 6E
Keypad Tamper	ON	ON	P75E 7E	P77E 7E	P75E 7E	P77E 7E	P191E 7E	P193E 7E
Exit Installer Mode		ON	P75E 8E	P77E 8E	P75E 8E	P77E 8E	P191E 8E	P193E 8E
Radio Tamper	ON	ON	P92E 1E	P93E 1E	P75E 9E	P77E 9E	P191E 9E	P193E 9E
Radio Panic	ON	ON	P92E 2E	P93E 2E	P75E 10E	P77E 10E	P191E 10E	P193E 10E
Radio Battery		ON	P92E 3E	P93E 3E	P75E 11E	P77E 11E	P191E 11E	P193E 11E
Supervision fail		ON	P92E 4E	P93E 4E	P75E 12E	P77E 12E	P191E 12E	P193E 12E
Panel battery	ON	ON	P92E 5E	P93E 5E	P75E 13E	P77E 13E	P191E 13E	P193E 13E
Mains fail	ON	ON	P92E 6E	P93E 6E	P75E 14E	P77E 14E	P191E 14E	P193E 14E
[not used]		ON	P92E 7E	P93E 7E	P75E 15E	P77E 15E	P191E 15E	P193E 15E
[not used]		ON	P92E 8E	P93E 8E	P75E 16E	P77E 16E	P191E 16E	P193E 16E

P75E, P92E, P191E P77E, P93E, P193E	REPORT MISCELLANEOUS ALARMS REPORT MISCELLANEOUS RESTORALS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> See table.</p> <p><b>RELATED OPTIONS</b> P82E Restoral Reporting Options</p> <p><b>KPX+</b> PRO TIP</p> <p>When selecting zones, <b>0 E</b> selects all zones, <b>MEMORY E</b> deselects all zones</p>	<p>These options select which Miscellaneous alarms will trigger the dialler to send Miscellaneous Alarm and Restoral reports to the Central Station or by SMS messaging. Alarms are sent on activation. Restorals are sent according to P82E settings. Mains Fail and Low Battery Restorals are sent when the power has been restored.</p> <p>Note the different program option numbers for the D8 and D16.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white;">KPX+</td> <td>PxxE [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #00ff00; color: white;">NAVIGATOR</td> <td>PxxE or P92E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bfff; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E</td> </tr> </table> <p>Or use <a href="#">NessXCEL</a> app</p> <p>xx = See the table for program option numbers</p>	KPX+	PxxE [Zone Number] E to enable/disable zones	NAVIGATOR	PxxE or P92E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E
KPX+	PxxE [Zone Number] E to enable/disable zones						
NAVIGATOR	PxxE or P92E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E PxxE [Zone Number] E						

Option No.	Description	Default	
<b>P82E</b>	1E	Send RESTORAL report immediately	OFF
	2E	Send RESTORAL after siren time	OFF
	3E	Send RESTORAL after Disarm & seal	OFF
	4E	Send RESTORAL after Disarm always	ON

P82E 1E-4E	RESTORAL REPORTING OPTIONS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 4E, ON: Always send Restoral on Disarm.</p> <p><b>RELATED OPTIONS</b> P76E Report zone restorals.</p>	<p>This option selects when the dialler sends zone Restoral reports. Only one of the following options may be selected.</p> <p>Restoral reporting options also apply to 24hr zones.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white;">KPX+</td> <td>P82E xE to enable/disable the option</td> </tr> <tr> <td style="background-color: #00ff00; color: white;">NAVIGATOR</td> <td>P82E &gt; enable/disable xE</td> </tr> <tr> <td style="background-color: #00bfff; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P82E xE</td> </tr> </table> <p>Or use <a href="#">NessXCEL</a> app</p> <p>x = 1E, 2E, 3E or 4E</p>	KPX+	P82E xE to enable/disable the option	NAVIGATOR	P82E > enable/disable xE	SMS*	P[MasterCode]E P[InstallerCode]E P82E xE
KPX+	P82E xE to enable/disable the option						
NAVIGATOR	P82E > enable/disable xE						
SMS*	P[MasterCode]E P[InstallerCode]E P82E xE						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	Default	Note
P83E	TEST CALL INTERVAL	84	x2 = 168hrs
P84E	TIME BEFORE NEXT TEST CALL	6	x2 = 12hrs

P83E	TEST CALL INTERVAL						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 84 (=168hrs =7 days).</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Enter a value from 1 to 99.</li> </ul> <p><b>RELATED OPTIONS</b> P89E 1E Enable Test Calls. P84E Time Before Next Test Call.</p>	<p>Test calls to the Central Station can be sent at intervals between 2 and 198 hours in 2 hour increments. Programmable from 2 to 198 Hours. Enter a value between 1 and 99. (This is automatically multiplied by 2).</p> <p>EXAMPLE: To program daily test calls: P83E12E</p> <p>Test Calls must be enabled by option P89E 1E.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr style="background-color: #e91e63; color: white;"> <td style="width: 15%; text-align: center;">KPX+</td> <td>P83E [New Time] E</td> </tr> <tr style="background-color: #4caf50; color: white;"> <td style="text-align: center;">NAVIGATOR</td> <td>P83E &gt; [New Time] E</td> </tr> <tr style="background-color: #00bcd4; color: white;"> <td style="text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P83E [NewTime] E</td> </tr> </table> <p>Or use <span style="background-color: #4a7ebb; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P83E [New Time] E	NAVIGATOR	P83E > [New Time] E	SMS*	P[MasterCode]E P[InstallerCode]E P83E [NewTime] E
KPX+	P83E [New Time] E						
NAVIGATOR	P83E > [New Time] E						
SMS*	P[MasterCode]E P[InstallerCode]E P83E [NewTime] E						
P84E	TIME BEFORE NEXT TEST CALL						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 6 (=12hrs).</p> <p><b>NOTES</b></p> <ol style="list-style-type: none"> <li>1. Enter a value from 1 to 99.</li> <li>2. If Test Calls are to start immediately, then the value is set to 0.</li> <li>3. The Time Before Next Test Call is constantly updated. When viewed, the current value will be displayed (not the initially entered value).</li> </ol> <p><b>RELATED OPTIONS</b> P89E 1E, Enable Test Calls. P83E, Test Call interval.</p> <p><b>INSTALLER'S TIP</b> Use P8888888E prior to powering down for a short time. This will save the current Time Before Next Test Call and the Real Time Clock into permanent memory. On power up these times will be restored.</p>	<p>This option sets the time before the next test call and is used to set the preferred time for Test Calls. Programmable from 2 to 198 Hours. Enter a value between 1 and 99. (This is automatically multiplied by 2).</p> <p>exampleS:</p> <p>A. New Installation: Set the time before the next test call. E.g., If you are programming the panel at 5pm and you want test calls to be sent at 1am. Enter P84E 4E (4 x 2 =8hrs. Therefore 5pm + 8hrs =1am).</p> <p>B. Existing Installation: To reset the time that test calls are sent. E.g., Our example panel is sending test calls at 1am and you want to change it to 2am. If you are programming the panel at 6pm, enter P84E 4E (4 x 2 =8hrs. Therefore 6pm + 8hrs =2am).</p> <p>.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr style="background-color: #e91e63; color: white;"> <td style="width: 15%; text-align: center;">KPX+</td> <td>P84E [New Time] E</td> </tr> <tr style="background-color: #4caf50; color: white;"> <td style="text-align: center;">NAVIGATOR</td> <td>P84E &gt; [New Time] E</td> </tr> <tr style="background-color: #00bcd4; color: white;"> <td style="text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P84E [NewTime] E</td> </tr> </table> <p>Or use <span style="background-color: #4a7ebb; color: white; padding: 2px;">NessXCEL</span> app</p>	KPX+	P84E [New Time] E	NAVIGATOR	P84E > [New Time] E	SMS*	P[MasterCode]E P[InstallerCode]E P84E [NewTime] E
KPX+	P84E [New Time] E						
NAVIGATOR	P84E > [New Time] E						
SMS*	P[MasterCode]E P[InstallerCode]E P84E [NewTime] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

Option No.	Description	Default	
<b>P86E</b>	1E	Disable Dialler	OFF
	2E	Enable reporting by Contact ID	ON

P86E 1E	DISABLE DIALLER						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> Off: dialler enabled.</p> <p><b>NOTES</b> <b>When should this option be used?</b> 1. To temporarily prevent central station reports and outgoing SMS messages while testing the system. (Not essential but useful)</p> <p>The panel does not buffer any alarm messages while the dialler is disabled to prevent a flood of outgoing messages once it is re-enabled.</p> <p>2. To permanently disable the dialler if using the panel without a SIM. (Highly recommended)</p>	<p>When this option is on the dialler is disabled even if telephone numbers and other dialler options are programmed.</p> <p>This option disables both incoming and outgoing communications. No alarm reports will be sent and the dialler will ignore incoming SMS messages.</p> <p>Turn this option on if you are using the panel as a local system without an active SIM card. Leaving the dialler enabled without a SIM will generate unwanted dialler errors.</p> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P86E 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P86E &gt; enable/disable 1E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P86E 1E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P86E 1E to enable/disable the option	NAVIGATOR	P86E > enable/disable 1E	SMS*	P[MasterCode]E P[InstallerCode]E P86E 1E
KPX+	P86E 1E to enable/disable the option						
NAVIGATOR	P86E > enable/disable 1E						
SMS*	P[MasterCode]E P[InstallerCode]E P86E 1E						
P86E 2E	ENABLE REPORTING BY CONTACT ID						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> On: CID reporting enabled.</p> <p><b>RELATED OPTIONS</b> P170E Phone No 1 for CID reporting P171E Phone No 2 for CID reporting P87E 3E Enable reporting by SMS</p> <p><b>NOTES</b> The panel can send alarm reports to a central station by CID or to mobile phone number/s by SMS or both.</p>	<p>This option enables reporting to a central station in Contact ID (CID) format via CID phone numbers programmed at P170E, P171E</p> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P86E 2E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P86E &gt; enable/disable 2E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P86E 2 E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P86E 2E to enable/disable the option	NAVIGATOR	P86E > enable/disable 2E	SMS*	P[MasterCode]E P[InstallerCode]E P86E 2 E
KPX+	P86E 2E to enable/disable the option						
NAVIGATOR	P86E > enable/disable 2E						
SMS*	P[MasterCode]E P[InstallerCode]E P86E 2 E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	Default	
<b>P87E</b>	1E	Split dial Primary/Secondary numbers	OFF
	2E	[not used]	OFF
	3E	Enable reporting by SMS	ON
	4E	4 Dialling attempts	ON

<b>P87E 1E</b>	<b>SPLIT DIAL PRIMARY/SECONDARY PHONE NUMBERS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Split Dial.</p> <p><b>RELATED OPTIONS</b> P87E 4E Number of Dialling attempts.</p>	<p>This option selects the order in which Telephone numbers 1 &amp; 2 are dialled.</p> <p>Option OFF: Split Dial. Dial Telephone No.1 for half of the call attempts. If unsuccessful, dial Telephone No.2 for the last half of call attempts.</p> <p>Option ON: Alternate Dial. Dial Telephone No.1 on the first attempt. If no answer, dial Telephone No.2.</p> <p>Continue alternating until successful.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff00ff; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P87E 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #00ff00; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P87E &gt; enable/disable 1E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P87E 1E</td> </tr> </table> <p>Or use <span style="background-color: #cccccc; padding: 2px;">NessXCEL</span> app</p>	KPX+	P87E 1E to enable/disable the option	NAVIGATOR	P87E > enable/disable 1E	SMS*	P[MasterCode]E P[InstallerCode]E P87E 1E
KPX+	P87E 1E to enable/disable the option						
NAVIGATOR	P87E > enable/disable 1E						
SMS*	P[MasterCode]E P[InstallerCode]E P87E 1E						
<b>P87E 3E</b>	<b>ENABLE REPORTING BY SMS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> On: SMS reporting enabled.</p> <p><b>RELATED OPTIONS</b> P180E to P189E Phone numbers for SMS reporting P86E 2E Enable reporting by Contact ID</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>This option affects only outgoing reporting by SMS so if the option is disabled the panel will still reply to incoming SMS commands.</li> </ul>	<p>This option enables reporting to mobile phones by SMS messaging via SMS phone numbers programmed at P180E to P189E</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff00ff; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P87E 3E to enable/disable the option</td> </tr> <tr> <td style="background-color: #00ff00; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P87E &gt; enable/disable 3E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P87E 3E</td> </tr> </table> <p>Or use <span style="background-color: #cccccc; padding: 2px;">NessXCEL</span> app</p>	KPX+	P87E 3E to enable/disable the option	NAVIGATOR	P87E > enable/disable 3E	SMS*	P[MasterCode]E P[InstallerCode]E P87E 3E
KPX+	P87E 3E to enable/disable the option						
NAVIGATOR	P87E > enable/disable 3E						
SMS*	P[MasterCode]E P[InstallerCode]E P87E 3E						
<b>P87E 4E</b>	<b>NUMBER OF DIALLING ATTEMPTS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: 4 dialling attempts.</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>Sets the total number of dialling attempts. E.g. If 4 dialling attempts is selected, this means 2 attempts per telephone number.</li> </ul> <p><b>RELATED OPTIONS</b> P87E 1E Split Dial</p>	<p>Sets the number of dialling attempts when sending reports to a Central Station.</p> <p>OFF: sets a maximum 10 dial attempts before a 5 minute sleep and 10 more re-tries if unsuccessful.</p> <p>ON: allows a maximum of 4 dial attempts before a 5 minute sleep and 4 more retries if unsuccessful.</p> <p>If all attempts fail the dialler waits for the next trigger event. The previously unsuccessful report will be included in the new message.</p> <p>When sending Test Calls, the time between dialling attempts increases to 60 minutes for the second round of dialling. If a Test Call is unsuccessful after the first round of calls are made, another call is made after 5 minutes. If this call fails then subsequent calls are made every hour (up to the maximum number of calls).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff00ff; color: white; padding: 2px;">KPX+</td> <td style="padding: 2px;">P87E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #00ff00; color: white; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P87E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P87E 4E</td> </tr> </table> <p>Or use <span style="background-color: #cccccc; padding: 2px;">NessXCEL</span> app</p>	KPX+	P87E 4E to enable/disable the option	NAVIGATOR	P87E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P87E 4E
KPX+	P87E 4E to enable/disable the option						
NAVIGATOR	P87E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P87E 4E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

Option No.	Description	Default	
<b>P88E</b>	1E	Send AREA 1 Open/Close reports by CID	OFF
	2E	Send AREA 2 Open/Close reports by CID	OFF
	3E	Siren Chirp on Kiss-off	OFF
	4E	Flash Strobe on Kiss-off	OFF
	5E	Forced Opening report	ON
	6E	Delayed Closing Reports	OFF
	7E	Manual Exclude Reports	ON
	8E	Auto Exclude Reports	ON
<b>P194E</b>	1E	Send AREA 1 Open/Close reports by SMS	OFF
	2E	Send AREA 2 Open/Close reports by SMS	OFF

P88E 1E, P194E 1E	AREA1 OPEN/CLOSE REPORTS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: No AREA1 Open/Close reports.</p> <p><b>NOTES</b> This applies only to Open/Close reports sent to a central station.</p> <p><b>RELATED OPTIONS</b> P170E Phone No1 for CID Reporting P171E Phone No2 for CID Reporting</p>	<p>Enables AREA1 Open/Close reports when reporting to a Central Station in CID format or by SMS with separate settings for each format.</p> <p>The User ID of the code used is included in the report.</p> <p>Keyswitch arming is identified as User 57. Shortcut arming is identified as User 58.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>PxxE 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>PxxE &gt; enable/disable 1E</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E PxxE 1E</td> </tr> </table> <p>Or use <span style="border: 1px solid black; padding: 2px;">NessXCEL</span> app</p>	KPX+	PxxE 1E to enable/disable the option	NAVIGATOR	PxxE > enable/disable 1E	SMS*	P[MasterCode]E P[InstallerCode]E PxxE 1E
KPX+	PxxE 1E to enable/disable the option						
NAVIGATOR	PxxE > enable/disable 1E						
SMS*	P[MasterCode]E P[InstallerCode]E PxxE 1E						
P88E 2E, P194E 2E	AREA2 OPEN/CLOSE REPORTS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: No AREA2 Open/Close reports.</p> <p><b>RELATED OPTIONS</b> P170E Phone No1 for CID Reporting P171E Phone No2 for CID Reporting</p>	<p>Enables AREA2 Open/Close reports when reporting to a Central Station in CID format or by SMS with separate settings for each format.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>PxxE 2E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>PxxE &gt; enable/disable 2E</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E PxxE 2E</td> </tr> </table> <p>Or use <span style="border: 1px solid black; padding: 2px;">NessXCEL</span> app</p>	KPX+	PxxE 2E to enable/disable the option	NAVIGATOR	PxxE > enable/disable 2E	SMS*	P[MasterCode]E P[InstallerCode]E PxxE 2E
KPX+	PxxE 2E to enable/disable the option						
NAVIGATOR	PxxE > enable/disable 2E						
SMS*	P[MasterCode]E P[InstallerCode]E PxxE 2E						
P88E 3E	SIREN CHIRP ON KISS-OFF						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: No Siren Chirp on kiss-off.</p> <p><b>RELATED OPTIONS</b> P88E 4E Flash Strobe on kiss-off.</p>	<p>Enables a two second Siren burst on a successful Closing report. This is used to give audible indication that the dialler has successfully sent the Arming report to the central station.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P88E 3E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P88E &gt; enable/disable 3E</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P88E 3E</td> </tr> </table> <p>Or use <span style="border: 1px solid black; padding: 2px;">NessXCEL</span> app</p>	KPX+	P88E 3E to enable/disable the option	NAVIGATOR	P88E > enable/disable 3E	SMS*	P[MasterCode]E P[InstallerCode]E P88E 3E
KPX+	P88E 3E to enable/disable the option						
NAVIGATOR	P88E > enable/disable 3E						
SMS*	P[MasterCode]E P[InstallerCode]E P88E 3E						
P88E 4E	STROBE FLASH ON KISS-OFF						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: No Strobe Flash on kiss-off.</p> <p><b>RELATED OPTIONS</b> P88E 3E Siren Chirp on kiss-off.</p>	<p>Enables a two second Strobe burst on a successful Closing report. This is used to give visual indication that the dialler has successfully sent the Arming report to the central station.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P88E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P88E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P88E 4E</td> </tr> </table> <p>Or use <span style="border: 1px solid black; padding: 2px;">NessXCEL</span> app</p>	KPX+	P88E 4E to enable/disable the option	NAVIGATOR	P88E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P88E 4E
KPX+	P88E 4E to enable/disable the option						
NAVIGATOR	P88E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P88E 4E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



P88E 5E	FORCED OPENING REPORT						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Forced opening Reports enabled</p> <p><b>NOTES</b> This option is used to indicate to the Central Station that an alarm has been reset by a valid user. Usually used in cases where Open/Close reports are normally selected OFF.</p>	<p>If Forced Opening Report is enabled – when an alarm has been reset by a valid User Code (or Radio Key), the dialler will send an Opening report along with a restoral report for the zone or miscellaneous input which caused the alarm.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P88E 5E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P88E &gt; enable/disable 5E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P88E 5E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P88E 5E to enable/disable the option	NAVIGATOR	P88E > enable/disable 5E	SMS*	P[MasterCode]E P[InstallerCode]E P88E 5E
KPX+	P88E 5E to enable/disable the option						
NAVIGATOR	P88E > enable/disable 5E						
SMS*	P[MasterCode]E P[InstallerCode]E P88E 5E						
P88E 6E	DELAY CLOSING REPORT						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: Closing Reports sent on Arming.</p> <p><b>RELATED OPTIONS</b> P88E 1E AREA1 Open/Close reports. P88E 2E AREA2 Open/Close reports.</p>	<p>If enabled, Closing reports (if enabled) are sent at the end of Exit Time. Normally, Closing reports are sent immediately on arming.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P88E 6E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P88E &gt; enable/disable 6E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P88E 6E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P88E 6E to enable/disable the option	NAVIGATOR	P88E > enable/disable 6E	SMS*	P[MasterCode]E P[InstallerCode]E P88E 6E
KPX+	P88E 6E to enable/disable the option						
NAVIGATOR	P88E > enable/disable 6E						
SMS*	P[MasterCode]E P[InstallerCode]E P88E 6E						
P88E 7E	MANUAL EXCLUDE REPORT						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Manual Exclude Reports enabled.</p> <p><b>RELATED OPTIONS</b> P88E 8E Auto Exclude Reports.</p>	<p>Enables Manual Exclude Reports for zones. Exclude Reports for 24hr zones are sent on exiting EXCLUDE mode.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P88E 7E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P88E &gt; enable/disable 7E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P88E 7E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P88E 7E to enable/disable the option	NAVIGATOR	P88E > enable/disable 7E	SMS*	P[MasterCode]E P[InstallerCode]E P88E 7E
KPX+	P88E 7E to enable/disable the option						
NAVIGATOR	P88E > enable/disable 7E						
SMS*	P[MasterCode]E P[InstallerCode]E P88E 7E						
P88E 8E	AUTO EXCLUDE REPORT						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Auto Exclude Reports enabled.</p> <p><b>RELATED OPTIONS</b> P88E 7E Manual Exclude Reports.</p>	<p>Enables Auto Exclude Reports for Zones. Zones not sealed on arming will be reported as Auto Excluded.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P88E 8E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P88E &gt; enable/disable 8E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P88E 8E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P88E 8E to enable/disable the option	NAVIGATOR	P88E > enable/disable 8E	SMS*	P[MasterCode]E P[InstallerCode]E P88E 8E
KPX+	P88E 8E to enable/disable the option						
NAVIGATOR	P88E > enable/disable 8E						
SMS*	P[MasterCode]E P[InstallerCode]E P88E 8E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

Option No.	Description	Default	
<b>P89E</b>	1E	ENABLE TEST CALLS	ON
	2E	Mains Report Delay (1 hour)	ON
	3E	[not used]	OFF
	4E	Swinger shutdown	ON
	5E	Line Fault Monitor	OFF
	6E	[not used]	OFF
	7E	[not used]	OFF
	8E	[not used]	OFF

<b>P89E 1E</b>	<b>ENABLE TEST CALLS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Test Calls enabled.</p> <p><b>RELATED OPTIONS</b> P83E Test Call Interval. P84E Time before next Test call. P87E 4E Number Of Dialling Attempts.</p> <p><b>NOTES</b> Test Calls cannot be sent by SMS, only to a central station.</p>	<p>Enables the reporting of dialler test calls to the Central station.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff0066; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P89E 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #008000; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P89E &gt; enable/disable 1E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P89E 1E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P89E 1E to enable/disable the option	NAVIGATOR	P89E > enable/disable 1E	SMS*	P[MasterCode]E P[InstallerCode]E P89E 1E
KPX+	P89E 1E to enable/disable the option						
NAVIGATOR	P89E > enable/disable 1E						
SMS*	P[MasterCode]E P[InstallerCode]E P89E 1E						
<b>P89E 2E</b>	<b>MAINS REPORT DELAY</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Mains Fail report is delayed.</p>	<p>Allows Mains Fail reports to be delayed by one hour if the mains power has been off continuously for that time. This avoids mains fail reports being sent to the Central Station in the event of brief power failures.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff0066; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P89E 2E to enable/disable the option</td> </tr> <tr> <td style="background-color: #008000; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P89E &gt; enable/disable 2E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P89E 2E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P89E 2E to enable/disable the option	NAVIGATOR	P89E > enable/disable 2E	SMS*	P[MasterCode]E P[InstallerCode]E P89E 2E
KPX+	P89E 2E to enable/disable the option						
NAVIGATOR	P89E > enable/disable 2E						
SMS*	P[MasterCode]E P[InstallerCode]E P89E 2E						
<b>P89E 4E</b>	<b>SWINGER SHUTDOWN</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> ON: Swinger Shutdown enabled.</p> <p><b>NOTES</b> This prevents unnecessary multiple alarms reported to the Central station in cases, for example, where a door is 'swinging' in the wind. This option only applies to zones enabled to Report Multiple Zone Alarms.</p> <p><b>RELATED OPTIONS</b> P78E Report Multiple Zone Alarms.</p>	<p>Limits the number of calls made by a zone alarm in any one armed period. Alarm reports are normally limited to 15 multiple reports per zone. When Swinger Shutdown is enabled, multiple reports are reduced to 3 multiple reports per zone.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff0066; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P89E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #008000; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P89E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P89E 4E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P89E 4E to enable/disable the option	NAVIGATOR	P89E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P89E 4E
KPX+	P89E 4E to enable/disable the option						
NAVIGATOR	P89E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P89E 4E						
<b>P89E 5E</b>	<b>LINE FAULT MONITOR</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF: No Line Fault Monitor.</p> <p><b>RELATED OPTIONS</b> P122E 5E Line Fault to AUX2</p>	<p>When this option is enabled the keypad/s will display cellular signal errors. If the cellular signal is low or absent KPX keypad will flash CELL 00, Navigator displays Line Fault.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff0066; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P89E 5E to enable/disable the option</td> </tr> <tr> <td style="background-color: #008000; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P89E &gt; enable/disable 5E</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P89E 5E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P89E 5E to enable/disable the option	NAVIGATOR	P89E > enable/disable 5E	SMS*	P[MasterCode]E P[InstallerCode]E P89E 5E
KPX+	P89E 5E to enable/disable the option						
NAVIGATOR	P89E > enable/disable 5E						
SMS*	P[MasterCode]E P[InstallerCode]E P89E 5E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	ZONES 1-8 (D8 & D16)							
		1	2	3	4	5	6	7	8
P94E	"NO MEMORY WARNING"ZONES								

P94E	NO MEMORY WARNING ZONES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> no zones selected.</p> <p><b>NOTES</b> Applies to zones 1-8 only for both D8XCEL and D16XCEL</p> <p><b>KPX+ PRO TIP</b> When selecting zones, 0 E selects all, MEMORY E deselects all.</p>	<p>Select zones that do not flash the Memory indicator on the keypad/s. Alarm events on those zones are still stored in memory and can be reviewed as normal.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P94E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P94E &gt; Select zones</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P94E [Zone Number] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P94E [Zone Number] E to enable/disable zones	NAVIGATOR	P94E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P94E [Zone Number] E
KPX+	P94E [Zone Number] E to enable/disable zones						
NAVIGATOR	P94E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P94E [Zone Number] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

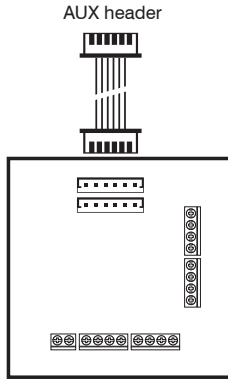
# PROGRAMMING

These options allow selective restoring of factory defaults. For example, you can default (clear) all the User Codes, without affecting any other programmed options.

Option No.	Description
P95E	CLEAR RADIO DEVICES
P96E	CLEAR MEMORY
P97E	CLEAR PANEL OPTIONS (RESTORE FACTORY DEFAULTS)
P98E	CLEAR USER CODES
P99E	PROGRAM INSTALLER CODE

P95E	CLEAR RADIO DEVICES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> [not applicable]</p>	<p>This option clears all Radio Devices assigned to zones 1–8 or 1–16. (This option does not clear User Codes).</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P95E to delete radio device codes</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P95E &gt; to delete radio device codes</td> </tr> <tr> <td style="background-color: #2196f3; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P95E</td> </tr> </tbody> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P95E to delete radio device codes	NAVIGATOR	P95E > to delete radio device codes	SMS*	P[MasterCode]E P[InstallerCode]E P95E
KPX+	P95E to delete radio device codes						
NAVIGATOR	P95E > to delete radio device codes						
SMS*	P[MasterCode]E P[InstallerCode]E P95E						
P96E	CLEAR MEMORY						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> [not applicable]</p>	<p>This option clears events in the Alarm Memory display.</p> <p>Note: This option clears only the 20 event memory as read by KPX+ and Saturn keypads. Ness Navigator touch screen keypad's 80 event memory is not affected.</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P96E to clear alarm memory</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P96E &gt; to clear alarm memory</td> </tr> <tr> <td style="background-color: #2196f3; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P96E</td> </tr> </tbody> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P96E to clear alarm memory	NAVIGATOR	P96E > to clear alarm memory	SMS*	P[MasterCode]E P[InstallerCode]E P96E
KPX+	P96E to clear alarm memory						
NAVIGATOR	P96E > to clear alarm memory						
SMS*	P[MasterCode]E P[InstallerCode]E P96E						
P97E	CLEAR PANEL OPTIONS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> [not applicable]</p> <p><b>NOTES</b> Note, this option will also delete Radio Devices programmed on zones.</p>	<p>This option restores all panel program options to their factory default values.</p> <p><b>Defaults all program options except User Codes and Radio Codes.</b></p> <p>Note, this option will also delete Radio Devices programmed on zones.</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P97E to restore factory defaults</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P97E &gt; to restore factory defaults</td> </tr> <tr> <td style="background-color: #2196f3; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P97E</td> </tr> </tbody> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P97E to restore factory defaults	NAVIGATOR	P97E > to restore factory defaults	SMS*	P[MasterCode]E P[InstallerCode]E P97E
KPX+	P97E to restore factory defaults						
NAVIGATOR	P97E > to restore factory defaults						
SMS*	P[MasterCode]E P[InstallerCode]E P97E						
P98E	CLEAR USER CODES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> User Code 1: 123 All other codes: [blank]</p> <p><b>NOTES</b> This option DOES NOT clear the Installer Code.</p>	<p>This option defaults all User Codes, (all Keypad Codes, Radio Keys and Access cards) and restores User Code 1 to the factory setting of 123.</p> <p>P201E – P256E are defaulted (User Codes 1–56)</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P98E to default user codes</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P97E &gt; to default user codes</td> </tr> <tr> <td style="background-color: #2196f3; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P98E</td> </tr> </tbody> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P98E to default user codes	NAVIGATOR	P97E > to default user codes	SMS*	P[MasterCode]E P[InstallerCode]E P98E
KPX+	P98E to default user codes						
NAVIGATOR	P97E > to default user codes						
SMS*	P[MasterCode]E P[InstallerCode]E P98E						
P99E	PROGRAM THE INSTALLER CODE						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 000000</p>	<p>Programs the installer code. This code can be 3 to 6 digits long. Factory default installer code is 000000.</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td style="background-color: #e91e63; color: white; font-weight: bold;">KPX+</td> <td>P99E [New Installer Code] E [New Installer Code] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white; font-weight: bold;">NAVIGATOR</td> <td>P99E &gt; [New Installer Code] E [New Installer Code] E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P99E [New Installer Code] E</td> </tr> </tbody> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P99E [New Installer Code] E [New Installer Code] E	NAVIGATOR	P99E > [New Installer Code] E [New Installer Code] E	SMS*	P[MasterCode]E P[InstallerCode]E P99E [New Installer Code] E
KPX+	P99E [New Installer Code] E [New Installer Code] E						
NAVIGATOR	P99E > [New Installer Code] E [New Installer Code] E						
SMS*	P[MasterCode]E P[InstallerCode]E P99E [New Installer Code] E						

For a complete list of factory default values, see the Programming Options Summary on pages 87–92.



Option No.	Description	Default	
<b>P117E</b>	1E	Enable Output Expander	OFF
	2E	Expander Output Format A & B	OFF
	3E	Day Zone follower	OFF
	4E	Output Exclude	OFF
	5E	Expander Output Format C	OFF
	6E	User Code Toggle or Pulse	OFF
	7E	[not used]	OFF
	8E	[not used]	OFF

<b>P117E</b>	<b>OUTPUT EXPANDER OPTIONS 1E - 8E</b>																																																																																																																																					
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> Refer to table.</p>	<p>Enable or disable P117E 1E to 8E as required.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ff69b4; color: white; text-align: center; font-weight: bold;">KPX+</td> <td>P117E 1E - 8E to enable/disable options as required</td> </tr> <tr> <td style="background-color: #90ee90; text-align: center; font-weight: bold;">NAVIGATOR</td> <td>P117E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #66b3ff; text-align: center; font-weight: bold;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P117E [1E -8E] as required</td> </tr> </table> <p>Or use <a href="#">NessXCEL</a> app</p>	KPX+	P117E 1E - 8E to enable/disable options as required	NAVIGATOR	P117E > enable/disable 1E - 8E as required	SMS*	P[MasterCode]E P[InstallerCode]E P117E [1E -8E] as required																																																																																																																															
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<b>P117E 1E</b>	<b>ENABLE OUTPUT EXPANDER</b>																																																																																																																																					
<p><b>FACTORY DEFAULT</b> OFF: No Output Expander.</p> <p><b>NOTES</b> Connect up to two Output Expander boards.</p>	<p>Selecting this option enables the optional 100-699 or 106-011 Output Expander.</p> <p>When this option is enabled, the AUX connector on the main board will only drive the Output Expander.</p> <p>When this option is disabled, the AUX header is used for the 106-013 Four Relay Board.</p>																																																																																																																																					
<b>P117E 2E</b>	<b>ALTERNATE EXPANDER FORMAT A, B</b>																																																																																																																																					
<p><b>FACTORY DEFAULT</b> OFF</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>The second expander plugs into the second 6-way header on the first expander. The expander closest to the panel becomes Expander 1.</li> <li>The User Code outputs will follow the ON/OFF state of the User Codes 13 to 15. These outputs can be made to change via:                             <ol style="list-style-type: none"> <li>Radio key. Pressing the ON button turns the output On, OFF turns it OFF. A Radio key must be programmed to a User Code 13~15 for this will operate.</li> <li>Radio keypad auxiliary key. The radio keypad auxiliary key (there are 2 auxiliary keys) must be programmed to a User Code 13~15.</li> <li>The D8x/D16x keypad using ARM - DISARM with a User Code. Enter Arm+User_Code_13~15 to turn the output on. User_Code_13~15 + E will turn the output off. Note that the USER CODE does not have to be assigned to an AREA for this to work.</li> </ol> </li> <li>If P117E 6E is ON then the ARM, DISARM buttons on Radio Keys do not change the Code13-15 outputs on the output expander. Only the AUX button works, pulsing ON the Code13-15 output for the time set by P145E.</li> </ul>	<p>Use this option along with option P117E 5E to configure the output expander outputs as per the output tables.</p> <p>Three different combinations of outputs are available for either a single or dual output expanders.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #f2f2f2;"> <th></th> <th colspan="2">Output Format A</th> <th colspan="2">Output Format B</th> <th colspan="2">Output Format C</th> </tr> <tr> <th></th> <td colspan="2">P117E 1E = ON P117E 2E = OFF P117E 5E = OFF</td> <td colspan="2">P117E 1E = ON P117E 2E = ON P117E 5E = OFF</td> <td colspan="2">P117E 1E = ON P117E 2E = OFF P117E 5E = ON</td> </tr> <tr style="background-color: #f2f2f2;"> <th>OUTPUT</th> <th>EXPANDER 1 (Or if using only one expander)</th> <th>EXPANDER 2</th> <th>EXPANDER 1 (Or if using only one expander)</th> <th>EXPANDER 2</th> <th>EXPANDER 1 (Or if using only one expander)</th> <th>EXPANDER 2</th> </tr> </thead> <tbody> <tr><td>1</td><td>Zone 1</td><td>Aux 5</td><td>Zone 1</td><td>Aux 5</td><td>Aux 5</td><td>Zone 1</td></tr> <tr><td>2</td><td>Zone 2</td><td>Aux 6</td><td>Zone 2</td><td>Aux 6</td><td>Aux 6</td><td>Zone 2</td></tr> <tr><td>3</td><td>Zone 3</td><td>Aux 7</td><td>Zone 3</td><td>Aux 7</td><td>Aux 7</td><td>Zone 3</td></tr> <tr><td>4</td><td>Zone 4</td><td>Aux 8</td><td>Zone 4</td><td>Aux 8</td><td>Aux 8</td><td>Zone 4</td></tr> <tr><td>5</td><td>Zone 5</td><td>User Code 13</td><td>Zone 5</td><td>User Code 13</td><td>User Code 13</td><td>Zone 5</td></tr> <tr><td>6</td><td>Zone 6</td><td>User Code 14</td><td>Zone 6</td><td>User Code 14</td><td>User Code 14</td><td>Zone 6</td></tr> <tr><td>7</td><td>Zone 7</td><td>User Code 15</td><td>Zone 7</td><td>User Code 15</td><td>User Code 15</td><td>Zone 7</td></tr> <tr><td>8</td><td>Zone 8</td><td>Tel. Line Fail</td><td>Zone 8</td><td>Tel. Line Fail</td><td>Tel. Line Fail</td><td>Zone 8</td></tr> <tr><td>9</td><td>Zone 9</td><td>Aux 1</td><td>Aux 1</td><td>Zone 9</td><td>Aux 1</td><td>Zone 9</td></tr> <tr><td>10</td><td>Zone 10</td><td>Aux 2</td><td>Aux 2</td><td>Zone 10</td><td>Aux 2</td><td>Zone 10</td></tr> <tr><td>11</td><td>Zone 11</td><td>Aux 3</td><td>Aux 3</td><td>Zone 11</td><td>Aux 3</td><td>Zone 11</td></tr> <tr><td>12</td><td>Zone 12</td><td>Aux 4</td><td>Aux 4</td><td>Zone 12</td><td>Aux 4</td><td>Zone 12</td></tr> <tr><td>13</td><td>Zone 13</td><td>Arm Home</td><td>Arm Home</td><td>Zone 13</td><td>Arm Home</td><td>Zone 13</td></tr> <tr><td>14</td><td>Zone 14</td><td>Mains Fail</td><td>Mains Fail</td><td>Zone 14</td><td>Mains Fail</td><td>Zone 14</td></tr> <tr><td>15</td><td>Zone 15</td><td>Battery Fail</td><td>Battery Fail</td><td>Zone 15</td><td>Battery Fail</td><td>Zone 15</td></tr> <tr><td>16</td><td>Zone 16</td><td>Ext. Tamper</td><td>Ext. Tamper</td><td>Zone 16</td><td>Ext. Tamper</td><td>Zone 16</td></tr> </tbody> </table>		Output Format A		Output Format B		Output Format C			P117E 1E = ON P117E 2E = OFF P117E 5E = OFF		P117E 1E = ON P117E 2E = ON P117E 5E = OFF		P117E 1E = ON P117E 2E = OFF P117E 5E = ON		OUTPUT	EXPANDER 1 (Or if using only one expander)	EXPANDER 2	EXPANDER 1 (Or if using only one expander)	EXPANDER 2	EXPANDER 1 (Or if using only one expander)	EXPANDER 2	1	Zone 1	Aux 5	Zone 1	Aux 5	Aux 5	Zone 1	2	Zone 2	Aux 6	Zone 2	Aux 6	Aux 6	Zone 2	3	Zone 3	Aux 7	Zone 3	Aux 7	Aux 7	Zone 3	4	Zone 4	Aux 8	Zone 4	Aux 8	Aux 8	Zone 4	5	Zone 5	User Code 13	Zone 5	User Code 13	User Code 13	Zone 5	6	Zone 6	User Code 14	Zone 6	User Code 14	User Code 14	Zone 6	7	Zone 7	User Code 15	Zone 7	User Code 15	User Code 15	Zone 7	8	Zone 8	Tel. Line Fail	Zone 8	Tel. Line Fail	Tel. Line Fail	Zone 8	9	Zone 9	Aux 1	Aux 1	Zone 9	Aux 1	Zone 9	10	Zone 10	Aux 2	Aux 2	Zone 10	Aux 2	Zone 10	11	Zone 11	Aux 3	Aux 3	Zone 11	Aux 3	Zone 11	12	Zone 12	Aux 4	Aux 4	Zone 12	Aux 4	Zone 12	13	Zone 13	Arm Home	Arm Home	Zone 13	Arm Home	Zone 13	14	Zone 14	Mains Fail	Mains Fail	Zone 14	Mains Fail	Zone 14	15	Zone 15	Battery Fail	Battery Fail	Zone 15	Battery Fail	Zone 15	16	Zone 16	Ext. Tamper	Ext. Tamper	Zone 16	Ext. Tamper	Zone 16
	Output Format A		Output Format B		Output Format C																																																																																																																																	
	P117E 1E = ON P117E 2E = OFF P117E 5E = OFF		P117E 1E = ON P117E 2E = ON P117E 5E = OFF		P117E 1E = ON P117E 2E = OFF P117E 5E = ON																																																																																																																																	
OUTPUT	EXPANDER 1 (Or if using only one expander)	EXPANDER 2	EXPANDER 1 (Or if using only one expander)	EXPANDER 2	EXPANDER 1 (Or if using only one expander)	EXPANDER 2																																																																																																																																
1	Zone 1	Aux 5	Zone 1	Aux 5	Aux 5	Zone 1																																																																																																																																
2	Zone 2	Aux 6	Zone 2	Aux 6	Aux 6	Zone 2																																																																																																																																
3	Zone 3	Aux 7	Zone 3	Aux 7	Aux 7	Zone 3																																																																																																																																
4	Zone 4	Aux 8	Zone 4	Aux 8	Aux 8	Zone 4																																																																																																																																
5	Zone 5	User Code 13	Zone 5	User Code 13	User Code 13	Zone 5																																																																																																																																
6	Zone 6	User Code 14	Zone 6	User Code 14	User Code 14	Zone 6																																																																																																																																
7	Zone 7	User Code 15	Zone 7	User Code 15	User Code 15	Zone 7																																																																																																																																
8	Zone 8	Tel. Line Fail	Zone 8	Tel. Line Fail	Tel. Line Fail	Zone 8																																																																																																																																
9	Zone 9	Aux 1	Aux 1	Zone 9	Aux 1	Zone 9																																																																																																																																
10	Zone 10	Aux 2	Aux 2	Zone 10	Aux 2	Zone 10																																																																																																																																
11	Zone 11	Aux 3	Aux 3	Zone 11	Aux 3	Zone 11																																																																																																																																
12	Zone 12	Aux 4	Aux 4	Zone 12	Aux 4	Zone 12																																																																																																																																
13	Zone 13	Arm Home	Arm Home	Zone 13	Arm Home	Zone 13																																																																																																																																
14	Zone 14	Mains Fail	Mains Fail	Zone 14	Mains Fail	Zone 14																																																																																																																																
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\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

<b>P117E 3E</b>	<b>DAY ZONE FOLLOWER</b>
<p><b>FACTORY DEFAULT</b> OFF: No Day Zone Follower.</p> <p><b>NOTES</b> Day zone outputs are turned off when the panel is in Home or Area modes.</p>	<p>When enabled, this option allows Day zones to appear on the Zone Outputs.</p> <p>In Day mode the Zone Output will follow the state of any active Day zone. This occurs independently of the Program Zone selections P118E (Output Expander Zone Follower) and P119E (Output Expander Zone Latch).</p>
<b>P117E 4E</b>	<b>OUTPUT EXCLUDE</b>
<p><b>FACTORY DEFAULT</b> OFF: No Output Exclude.</p>	<p>When enabled, this option allows zones selected for Manual Exclusion (not Auto Exclusion) to also Exclude the Expander Zone outputs. With this option ON, and if a zone has been manually excluded then it will not signal an alarm on the Expander.</p>
<b>P117E 5E</b>	<b>ALTERNATE EXPANDER FORMAT C</b>
<p><b>FACTORY DEFAULT</b> OFF</p> <p><b>NOTES</b> If P117E 2E is ON, then P117E 5E is ignored</p>	<p>Use this option along with option P117E 2E to configure the output expander outputs as per the output tables.</p> <p>Three different combinations of outputs are available for either a single or dual output expanders.</p>
<b>P117E 6E</b>	<b>USER CODE TOGGLE OR PULSE</b>
<p><b>FACTORY DEFAULT</b> OFF</p>	<p>When enabled, this option changes the User Code 13 to 15 operations to pulse on Radio Key AUX button.</p> <p>This allows up to three users to remotely control separate access points such as garage doors.</p> <p>Note that other actions set for the Radio Key AUX button are unchanged.</p>

Option No.	Description	ZONES 1-8 (D8 & D16)								ZONES 9-16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P118E	OUTPUT EXPANDER ZONES																
P119E	OUTPUT EXPANDER ALARM ZONES																

<b>P118E</b>	<b>OUTPUT EXPANDER ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All OFF: No Output Expander zones.</p> <p><b>NOTES</b> Selecting a zone in both P118 &amp; P119 options effectively gives pulsed outputs whenever that zone alarms.</p>	<p>Select zones that will be output whenever the zone is unsealed. When the zone reseals the output automatically goes off.</p> <p>Additionally if a zone is also selected in P119 (to zone latch) then an output will only occur whenever a zone is in alarm and is also unsealed. In this case when the zone reseals the output automatically goes off again. A further zone unseal will turn the zone Expander output On again.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;"><b>KPX+</b></td> <td style="padding: 2px;">P118E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;"><b>NAVIGATOR</b></td> <td style="padding: 2px;">P118E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;"><b>SMS*</b></td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P118E [Zone Number] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	P118E [Zone Number] E to enable/disable zones	<b>NAVIGATOR</b>	P118E > Select zones	<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P118E [Zone Number] E
<b>KPX+</b>	P118E [Zone Number] E to enable/disable zones						
<b>NAVIGATOR</b>	P118E > Select zones						
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P118E [Zone Number] E						
<b>P119E</b>	<b>OUTPUT EXPANDER ALARM ZONES</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All OFF: No Output Expander Alarm zones.</p> <p><b>KPX+ PRO TIP</b> When selecting zones, 0 E selects all, MEMORY E deselects all.</p>	<p>This selects the zones that will be output whenever the zone is latched into alarm. The output goes off only when the alarm system is reset.</p> <p>Additionally if a zone is also selected in P118 (to zone follow) then an output will only occur whenever a zone is in alarm and is also unsealed. (See P118 above).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;"><b>KPX+</b></td> <td style="padding: 2px;">P119E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;"><b>NAVIGATOR</b></td> <td style="padding: 2px;">P119E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center; padding: 2px;"><b>SMS*</b></td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P119E [Zone Number] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	P119E [Zone Number] E to enable/disable zones	<b>NAVIGATOR</b>	P119E > Select zones	<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P119E [Zone Number] E
<b>KPX+</b>	P119E [Zone Number] E to enable/disable zones						
<b>NAVIGATOR</b>	P119E > Select zones						
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P119E [Zone Number] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	Default	
<b>P120E</b>	1E	Latched keyswitch input	OFF
	2E	Siren Chirp on Home Arming by Radio	OFF
	3E	Radio Key AUX arms Home Monitor	OFF
	4E	Keyswitch DISARM only	OFF
	5E	Keyswitch ARM only	OFF
	6E	Smart Beep	OFF
	7E	Entry Delay Extender	OFF
	8E	Area2 Disarm by Keyswitch Allowed	OFF

<b>P120E 1E</b>	<b>LATCHED KEYSWITCH</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p> <p><b>RELATED OPTIONS</b> P60E 2E, 3E Keyswitch options.</p>	<p>This option enables the use of a latched, (2 position on/off), keyswitch. Keyswitch operation must first be enabled using options P60E 2E, 3E, page 33.</p> <p>Note: Enabling Latched keyswitch disables all other methods of arming and disarming (keypad, radio key, card).</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P120E 1E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P120E &gt; enable/disable 1E</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P120E 1E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P120E 1E to enable/disable the option	NAVIGATOR	P120E > enable/disable 1E	SMS*	P[MasterCode]E P[InstallerCode]E P120E 1E
KPX+	P120E 1E to enable/disable the option						
NAVIGATOR	P120E > enable/disable 1E						
SMS*	P[MasterCode]E P[InstallerCode]E P120E 1E						
<b>P120E 2E</b>	<b>SIREN CHIRP ON HOME ARMING BY RADIO</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p> <p><b>NOTE</b> This option enables Radio Key Home Arming chirps regardless of the state of P64E 4E (Radio Key siren chirps).</p> <p><b>RELATED OPTIONS</b> P64E 6E Strobe Flash on Home Arming by Radio.</p>	<p>This option enables siren chirps when arming and disarming Home Mode with a Radio Key.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P120E 2E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P120E &gt; enable/disable 2E</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P120E 2E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P120E 2E to enable/disable the option	NAVIGATOR	P120E > enable/disable 2E	SMS*	P[MasterCode]E P[InstallerCode]E P120E 2E
KPX+	P120E 2E to enable/disable the option						
NAVIGATOR	P120E > enable/disable 2E						
SMS*	P[MasterCode]E P[InstallerCode]E P120E 2E						
<b>P120E 3E</b>	<b>RADIO AUX BUTTON ARMS HOME MODE</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p> <p><b>NOTE</b> This option also enables Radio Key Home Arming chirps regardless of the state of P64E 4E (Radio Key siren chirps).</p> <p><b>RELATED OPTIONS</b> P69E 5E Radio key Home arm by ON/OFF buttons.</p>	<p>This option enables the AUX button on a Ness RK4 Radio Key to arm Home Mode.</p> <p>When this option is enabled, options P122E 3E &amp; 4E will be disabled, (AUX button to Aux2 options. See page 65).</p> <p>(This option is independent of P69E 5E, Home arming by radio key ON/OFF buttons).</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P120E 3E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P120E &gt; enable/disable 3E</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P120E 3E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P120E 3E to enable/disable the option	NAVIGATOR	P120E > enable/disable 3E	SMS*	P[MasterCode]E P[InstallerCode]E P120E 3E
KPX+	P120E 3E to enable/disable the option						
NAVIGATOR	P120E > enable/disable 3E						
SMS*	P[MasterCode]E P[InstallerCode]E P120E 3E						
<b>P120E 4E</b>	<b>KEYSWITCH DISARM ONLY</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p> <p><b>RELATED OPTIONS</b> P120E 1E Latched Keyswitch. P60E 2E, 3E Keyswitch options</p>	<p>Converts the use of keyswitch operation using P60E 2E and 3E to only Disarm either from Area or Home mode. Keyswitch operation must first be enabled using options P60E 2E, 3E, page 33.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P120E 4E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P120E &gt; enable/disable 4E</td> </tr> <tr> <td style="background-color: #2196f3; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P120E 4E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P120E 4E to enable/disable the option	NAVIGATOR	P120E > enable/disable 4E	SMS*	P[MasterCode]E P[InstallerCode]E P120E 4E
KPX+	P120E 4E to enable/disable the option						
NAVIGATOR	P120E > enable/disable 4E						
SMS*	P[MasterCode]E P[InstallerCode]E P120E 4E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



# PROGRAMMING

<b>P120E 5E</b>	<b>KEYSWITCH ARM ONLY</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p> <p><b>RELATED OPTIONS</b> P120E 1E Latched Keyswitch. P60E 2E, 3E Keyswitch options</p>	<p>Converts the use of keyswitch operation using P60E 2E and 3E to only arm either from Area or Home mode. Keyswitch operation must first be enabled using options P60E 2E, 3E, page 33.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P120E 5E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P120E &gt; enable/disable 5E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P120E 5E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P120E 5E to enable/disable the option	NAVIGATOR	P120E > enable/disable 5E	SMS*	P[MasterCode]E P[InstallerCode]E P120E 5E
KPX+	P120E 5E to enable/disable the option						
NAVIGATOR	P120E > enable/disable 5E						
SMS*	P[MasterCode]E P[InstallerCode]E P120E 5E						
<b>P120E 6E</b>	<b>SMART BEEPS</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• The zone causing the event is saved and can be identified by viewing MEMORY. Only one of the same consecutive zone warnings is saved, although the MEMORY display will flash each time (unless disabled by P94E option).</li> <li>• Smart Beeps work in addition to any other outputs mapped to Home and Day alarms, as programmed by options P63E 1E–8E.</li> <li>• Smart Beeps work in conjunction with any other Home and Day mode outputs, (as set by options P63E 1E–8E).</li> </ul>	<p>Smart Beeps are available in Brief Home or Brief Day mode to identify zones by keypad beeps.</p> <p>When a Home zone or Day zone is triggered, the zone number is slowly beeped out, followed by 2 seconds of silence. This is repeated 3 times and can be stopped by another beep (such as keypress).</p> <p>If the zone has entry delay you will hear the Smart Beeps sequence once when the zone is triggered and again at the end of entry delay. If Entry Beeps are disabled (P60E 1E), Smart Beeps will only be heard at the end of entry delay.</p> <p>Smart Beeps use the keypad/s onboard sonalert, so option P63E 3E and/or 7E must be on to enable the sonalert output for Home alarms and Day alarms.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P120E 6E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P120E &gt; enable/disable 6E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P120E 6E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P120E 6E to enable/disable the option	NAVIGATOR	P120E > enable/disable 6E	SMS*	P[MasterCode]E P[InstallerCode]E P120E 6E
KPX+	P120E 6E to enable/disable the option						
NAVIGATOR	P120E > enable/disable 6E						
SMS*	P[MasterCode]E P[InstallerCode]E P120E 6E						
<b>P120E 7E</b>	<b>ENTRY DELAY EXTENDER</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p> <p><b>RELATED OPTIONS</b> P26E Entry Delay Time1.</p>	<p>When enabled, this option increases the Entry Delay Time1 by a factor of 10. Example, if P26E is programmed for 30 sec, it becomes 300 sec. (Entry Delay Time2 is unaffected).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P120E 7E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P120E &gt; enable/disable 7E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P120E 7E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P120E 7E to enable/disable the option	NAVIGATOR	P120E > enable/disable 7E	SMS*	P[MasterCode]E P[InstallerCode]E P120E 7E
KPX+	P120E 7E to enable/disable the option						
NAVIGATOR	P120E > enable/disable 7E						
SMS*	P[MasterCode]E P[InstallerCode]E P120E 7E						
<b>P120E 8E</b>	<b>AREA2 DISARM BY KEYSWITCH ALLOWED</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> OFF</p> <p><b>RELATED OPTIONS</b> P60E 2E, 3E. P120E 1E, 4E, 5E</p>	<p>This option allows the keyswitch (if enabled) to disarm Area2. Note, the keyswitch cannot arm Area2, only disarm. Though it can both arm &amp; disarm Area1.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center; padding: 2px;">KPX+</td> <td style="padding: 2px;">P120E 8E to enable/disable the option</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center; padding: 2px;">NAVIGATOR</td> <td style="padding: 2px;">P120E &gt; enable/disable 8E</td> </tr> <tr> <td style="background-color: #2196f3; color: white; text-align: center; padding: 2px;">SMS*</td> <td style="padding: 2px;">P[MasterCode]E P[InstallerCode]E P120E 8E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P120E 8E to enable/disable the option	NAVIGATOR	P120E > enable/disable 8E	SMS*	P[MasterCode]E P[InstallerCode]E P120E 8E
KPX+	P120E 8E to enable/disable the option						
NAVIGATOR	P120E > enable/disable 8E						
SMS*	P[MasterCode]E P[InstallerCode]E P120E 8E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

## AUX1 OUTPUT OPTIONS

Only one of the P121E options may be selected.

Option No.	Description	Default
<b>P121E</b> 1E	Zone alarms to AUX1 (P58E selects zones)	ON
2E	Zone Supervision alarms to AUX1	OFF
3E	Radio key Panic TOGGLE	OFF
4E	Radio key Panic PULSE	OFF
5E	[not used]	OFF
6E	[not used]	OFF
7E	Door Open Too Long (DOTL) alarm to AUX1	OFF
8E	Reader [x] output pulses AUX1	OFF

Any or all of the P141E options may be selected.

Option No.	Description	Default
<b>P141E</b> 1E	Area 1 Armed to AUX1	OFF
2E	Area 2 Armed to AUX1	OFF
3E	Home Armed to AUX1	OFF
4E	Keypad toggle AUX1	OFF
5E	[not used]	OFF
6E	[not used]	OFF
7E	[not used]	OFF
8E	Pulse AUX1	OFF

P121E	AUX1 OPTIONS 1E - 8E						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 1E on.</p> <p><b>NOTES</b> Only one option can be on. Turning an option on turns off another.</p> <p><b>RELATED OPTIONS</b> P141E 1E-8E, P354E 5E-6E, P359E 5E-6E, P364E 5E-6E, P369E 5E-6E</p>	<p>Enable or disable P121E 1E to 8E as required. Only one option can be on.</p> <table border="1"> <tr> <td><b>KPX+</b></td> <td>P121E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td><b>NAVIGATOR</b></td> <td>P121E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td><b>SMS*</b></td> <td>P[MasterCode]E P[InstallerCode]E P121E [1E -8E] as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	P121E 1E - 8E to enable/disable the option as required	<b>NAVIGATOR</b>	P121E > enable/disable 1E - 8E as required	<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P121E [1E -8E] as required
<b>KPX+</b>	P121E 1E - 8E to enable/disable the option as required						
<b>NAVIGATOR</b>	P121E > enable/disable 1E - 8E as required						
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P121E [1E -8E] as required						
<b>P121E 1E</b>	<b>ZONE ALARMS TO AUX1</b>						
<p><b>RELATED OPTIONS</b> P58E Aux1,3 zones</p>	With this option ON, zones selected in P58E will turn on Aux1 when they go into alarm. The Aux1 output turns off when the panel is disarmed/reset.						
<b>P121E 2E</b>	<b>ZONE SUPERVISION ALARMS TO AUX1</b>						
<p><b>RELATED OPTIONS</b> P65E, P66E, P67E Radio Supervision</p>	With this option ON, the AUX1 output will turn on when a SUPERVISED RADIO alarm is triggered. The Aux1 output turns off when the panel is disarmed/reset.						
<b>P121E 3E</b>	<b>ENABLE AUX1 FOR AUTOTIMER / RADIO KEY PANIC TOGGLES AUX1</b>						
<p><b>NOTES</b> When this option is on, Radio Key Panic buttons will no longer sound alarms or report alarms by dialler.</p> <p><b>RELATED OPTIONS</b> P350E to P369E. AutoTimers 1 to 4.</p>	<p>Dual action programming option.</p> <p>When this option is on, AUX1 is enabled for use by AutoTimer and Radio Key/s Panic button will TOGGLE the Aux1 output.</p>						
<b>P121E 4E</b>	<b>RADIO KEY PANIC PULSES AUX1</b>						
<p><b>NOTES</b> When this option is on, Radio Key Panic buttons will no longer sound alarms or report alarms by dialler.</p> <p><b>RELATED OPTIONS</b> P145E AUX1 Timer</p>	When this option is on, Radio Key/s Panic button will PULSE the Aux1 output.						
<b>P121E 7E</b>	<b>DOOR OPEN TOO LONG (DOTL) ALERTS TO AUX1</b>						
<p><b>RELATED OPTIONS</b> P303E DOTL zones. P304E DOTL timer.</p>	This option enables DOTL zones (P303E) to turn on Aux1 when the DOTL Time (P304E) expires.						
<b>P121E 8E</b>	<b>DOOR OPEN TOO LONG (DOTL) ALERTS TO AUX1</b>						
<p><b>RELATED OPTIONS</b> P318E, P328E, P338E, P319E, P329E, P339E.</p>	This option enables an access control reader to pulse Aux1 when a valid access card is presented. Set the reader using P318E, P328E or P338E.						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

## AUX1 OUTPUT OPTIONS

P141E	ENHANCED AUX1 OPTIONS						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> All off. <b>NOTES</b> Any or all options may be selected on.	Enable or disable P141E 1E to 8E as required. Multiple options can be selected. <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P141E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P141E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P141E [1E -8E] as required</td> </tr> </table> Or use <span style="border: 1px solid black; padding: 2px;">NessXCEL</span> app	KPX+	P141E 1E - 8E to enable/disable the option as required	NAVIGATOR	P141E > enable/disable 1E - 8E as required	SMS*	P[MasterCode]E P[InstallerCode]E P141E [1E -8E] as required
KPX+	P141E 1E - 8E to enable/disable the option as required						
NAVIGATOR	P141E > enable/disable 1E - 8E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P141E [1E -8E] as required						
<b>P141E 1E</b>	<b>AREA 1 ARMED TO AUX1</b>						
	Turns on AUX1 while Area 1 is armed.						
<b>P141E 2E</b>	<b>AREA 2 ARMED TO AUX1</b>						
	Turns on AUX1 while Area 2 is armed.						
<b>P141E 3E</b>	<b>HOME ARMED TO AUX1</b>						
	Turns on AUX1 while armed in Home mode.						
<b>P141E 4E</b>	<b>KEYPAD TOGGLE AUX1</b>						
	Applies to KPX+ Keypad and Saturn Keypad. When this option is on, AUX1 is turned ON or PULSED with the keypress 11* (* = Left hand STAR button). AUX1 is turned OFF with the keypress 11# (# = Right hand STAR button).						
<b>P141E 8E</b>	<b>PULSE AUX1</b>						
<b>RELATED OPTIONS</b> P145E, AUX1 Pulse Time.  <b>P141E 4E must also be ON for this option to work</b>	This option converts the P121E 1E and the P141E 1E, 2E, 3E, 4E, 5E options into a pulsed AUX1 output.  AUX1 is pulsed on for the time set in P145E.						

Option No.	Description	Default	Note
P145E	AUX1 TIMER	20 sec	1 to 99 seconds

P145E	AUX1 TIMER						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> 20 sec. <b>RELATED OPTIONS</b> P141E 8E	Sets the length of pulse time for the AUX1 output when the P141E 8E option is selected. Select 1 to 99 seconds. <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white; text-align: center;">KPX+</td> <td>P145E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white; text-align: center;">NAVIGATOR</td> <td>P145E &gt; [New Time] E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white; text-align: center;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P145E [NewTime] E</td> </tr> </table> Or use <span style="border: 1px solid black; padding: 2px;">NessXCEL</span> app	KPX+	P145E [New Time] E	NAVIGATOR	P145E > [New Time] E	SMS*	P[MasterCode]E P[InstallerCode]E P145E [NewTime] E
KPX+	P145E [New Time] E						
NAVIGATOR	P145E > [New Time] E						
SMS*	P[MasterCode]E P[InstallerCode]E P145E [NewTime] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

## AUX2 OUTPUT OPTIONS

Only one of the P122E options may be selected.

Option No.	Description	Default
<b>P122E</b> 1E	Zone alarms to Aux2	ON
2E	Zone Supervision alarms to Aux2	OFF
3E	AutoTimer + R/Key Panic TOGGLES Aux2	OFF
4E	Radio Key AUX button Pulses Aux2	OFF
5E	[not used]	OFF
6E	[not used]	OFF
7E	DOTL alerts to Aux2	OFF
8E	Reader output pulses Aux2	OFF

Any or all of the P142E options may be selected.

Option No.	Description	Default
<b>P142E</b> 1E	Area1 Armed to AUX2	OFF
2E	Area2 Armed to AUX2	OFF
3E	Home Mode arm to AUX2	OFF
4E	Keypad toggle AUX2	OFF
5E	[not used]	OFF
6E	[not used]	OFF
7E	[not used]	OFF
8E	Pulse AUX2	OFF

P122E	AUX2 OPTIONS 1E - 8E						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 1E on.</p> <p><b>NOTES</b> Only one option can be on. Turning an option on turns off another.</p> <p><b>RELATED OPTIONS</b> P142E 1E-8E, P354E 7E-8E, P359E 7E-8E, P364E 7E-8E, P369E 7E-8E</p>	<p>P122E is one of several options which control the behaviour of the AUX2 output.</p> <p>One of the most powerful features of the D8XCEL/D16XCEL panels is the flexibility to control the AUX outputs by various events and alarms. If the AUX2 output does not behave as expected, please check all related options such as AutoTimers and P142E options.</p> <p>Enable or disable P122E 1E to 8E as required. Only one option can be on.</p> <table border="1"> <tr> <td><b>KPX+</b></td> <td>P122E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td><b>NAVIGATOR</b></td> <td>P122E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td><b>SMS*</b></td> <td>P[MasterCode]E P[InstallerCode]E P122E [1E -8E] as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	P122E 1E - 8E to enable/disable the option as required	<b>NAVIGATOR</b>	P122E > enable/disable 1E - 8E as required	<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P122E [1E -8E] as required
<b>KPX+</b>	P122E 1E - 8E to enable/disable the option as required						
<b>NAVIGATOR</b>	P122E > enable/disable 1E - 8E as required						
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P122E [1E -8E] as required						
<p><b>P122E 1E</b></p> <p><b>RELATED OPTIONS</b> P59E Aux2 zones.</p>	<p><b>ZONE ALARMS TO AUX2</b></p> <p>With this option ON, zones selected in P59E will turn on Aux2 when they go into alarm. The Aux2 output turns off when the panel is disarmed/reset.</p>						
<p><b>P122E 2E</b></p> <p><b>RELATED OPTIONS</b> P65E, P66E, P67E Radio Supervision.</p>	<p><b>ZONE SUPERVISION ALARMS TO AUX2</b></p> <p>Setting this option turns the AUX2 output ON when a SUPERVISED RADIO alarm is triggered. The Aux2 output turns off when the panel is disarmed/reset.</p>						
<p><b>P122E 3E</b></p> <p><b>RELATED OPTIONS</b> P350E to P369E. AutoTimers 1 to 4.</p>	<p><b>ENABLE AUX2 FOR AUTOTIMER / RADIO KEY AUX TOGGLES AUX2</b></p> <p>Dual action programming option.</p> <p>When this option is on, AUX2 is enabled for use by AutoTimer and Radio Key/s AUX button will TOGGLE the AUX2 output.</p>						
<p><b>P122E 4E</b></p> <p><b>RELATED OPTIONS</b> P146E AUX2 Timer</p>	<p><b>RADIO KEY AUX BUTTON PULSE AUX2</b></p> <p>When this option is on, Radio Key/s AUX button button will PULSE the Aux2 output.</p>						
<p><b>P122E 7E</b></p> <p><b>RELATED OPTIONS</b> P303E DOTL zones. P304E DOTL timer.</p>	<p><b>DOOR OPEN TOO LONG (DOTL) ALERTS TO AUX2</b></p> <p>This option enables DOTL zones (P303E) to turn on AUX2 when the DOTL Time (P304E) expires.</p>						
<p><b>P122E 8E</b></p> <p><b>RELATED OPTIONS</b> P318E, P328E, P338E, P319E, P329E, P339E.</p>	<p><b>READER OUTPUT TO AUX2</b></p> <p>This option enables an access control reader to pulse Aux2 when a valid access card is presented. Set the reader using P318E, P328E or P338E.</p>						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

## AUX2 OUTPUT OPTIONS

P142E	ENHANCED AUX2 OPTIONS						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> All off. <b>NOTES</b> Any or all options may be selected on.	The P142E enhanced AUX2 options work along with P122E and AutoTimers to provide multiple choices of events and alarms to control AUX2. <table border="1" style="margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P141E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P141E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P141E [1E -8E] as required</td> </tr> </table> Or use <span style="background-color: #333; color: white; padding: 2px;">NessXCEL</span> app	KPX+	P141E 1E - 8E to enable/disable the option as required	NAVIGATOR	P141E > enable/disable 1E - 8E as required	SMS*	P[MasterCode]E P[InstallerCode]E P141E [1E -8E] as required
KPX+	P141E 1E - 8E to enable/disable the option as required						
NAVIGATOR	P141E > enable/disable 1E - 8E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P141E [1E -8E] as required						
<b>P142E 1E</b>	<b>AREA1 ARMED TO AUX2</b>						
	Turns on AUX2 while Area 1 is armed.						
<b>P142E 2E</b>	<b>AREA2 ARMED TO AUX2</b>						
	Turns on AUX2 while Area 2 is armed.						
<b>P142E 3E</b>	<b>HOME ARMED TO AUX2</b>						
	Turns on AUX2 while armed in Home mode.						
<b>P142E 4E</b>	<b>KEYPAD TOGGLE AUX2</b>						
	Applies to KPX+ Keypad and Saturn Keypad. When this option is on, AUX2 is turned ON or PULSED with the keypress 22* (* = Left hand STAR button). AUX2 is turned OFF with the keypress 22# (# = Right hand STAR button).						
<b>P142E 8E</b>	<b>PULSE AUX2</b>						
<b>RELATED OPTIONS</b> P146E, AUX2 Pulse Time.  <b>P142E 4E must also be ON for this option to work</b>	This option converts the P122E 1E and the P142E 1E, 2E, 3E, 4E, 5E options into a pulsed AUX2 output.  AUX2 is pulsed on for the time set in P146E.						

Option No.	Description	Default	Note
P146E	AUX2 TIMER	20 sec	1 to 99 seconds

P146E	AUX2 TIMER						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> 20 sec. <b>RELATED OPTIONS</b> P142E 8E	Sets the length of pulse time for the AUX2 output when the P142E 8E option is selected. Select 1 to 99 seconds. <table border="1" style="margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P146E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P146E &gt; [New Time] E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P146E [NewTime] E</td> </tr> </table> Or use <span style="background-color: #333; color: white; padding: 2px;">NessXCEL</span> app	KPX+	P146E [New Time] E	NAVIGATOR	P146E > [New Time] E	SMS*	P[MasterCode]E P[InstallerCode]E P146E [NewTime] E
KPX+	P146E [New Time] E						
NAVIGATOR	P146E > [New Time] E						
SMS*	P[MasterCode]E P[InstallerCode]E P146E [NewTime] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

## AUX3 OUTPUT OPTIONS

Only one of the P123E options may be selected.

Option No.	Description	Default
<b>P123E</b> 1E	Zone Alarms to AUX3	OFF
2E	[not used]	OFF
3E	Enable AUX3 for AutoTimer	OFF
4E	Radio Key Panic Pulses AUX3	OFF
5E	[not used]	OFF
6E	[not used]	OFF
7E	[not used]	OFF
8E	Reader output pulses Aux3	OFF

Any or all of the P143E options may be selected.

Option No.	Description	Default
<b>P143E</b> 1E	Area1 Armed to AUX3	OFF
2E	Area2 Armed to AUX3	OFF
3E	Home Mode arm to AUX3	OFF
4E	Keypad toggle AUX3	OFF
5E	[not used]	OFF
6E	[not used]	OFF
7E	[not used]	OFF
8E	Pulse AUX3	OFF

<b>P123E</b>	<b>AUX3 OPTIONS 1E - 8E</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 1E on.</p> <p><b>NOTES</b> Only one option can be on. Turning an option on turns off another.</p> <p><b>RELATED OPTIONS</b> P143E 1E-8E Enhanced AUX3 options. P374E 5E-6E AutoTimer1 AUX3 options. P379E 5E-6E AutoTimer2 AUX3 options. P384E 5E-6E AutoTimer3 AUX3 options. P389E 5E-6E AutoTimer4 AUX3 options.</p>	<p>P123E is one of several options which control the behaviour of the AUX3 output. Enable or disable P123E 1E to 8E as required. Only one option can be on.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white;">KPX+</td> <td>P123E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #00ff00; color: white;">NAVIGATOR</td> <td>P123E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #00bfff; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P123E [1E -8E] as required</td> </tr> </table> <p>Or use <a href="#">NessXCEL</a> app</p>	KPX+	P123E 1E - 8E to enable/disable the option as required	NAVIGATOR	P123E > enable/disable 1E - 8E as required	SMS*	P[MasterCode]E P[InstallerCode]E P123E [1E -8E] as required
KPX+	P123E 1E - 8E to enable/disable the option as required						
NAVIGATOR	P123E > enable/disable 1E - 8E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P123E [1E -8E] as required						
<b>P123E 1E</b>	<b>ZONE ALARMS TO AUX3</b>						
<p><b>RELATED OPTIONS</b> P58E Aux1,3 zones. P121E 1E Zone Alarms to AUX1.</p>	<p>With this option ON, zones selected in P58E will turn on Aux3 when they go into alarm. The Aux3 output turns off when the panel is disarmed/reset.</p>						
<b>P123E 3E</b>	<b>ENABLE AUX3 FOR AUTOTIMER</b>						
<p><b>RELATED OPTIONS</b> P370E to P389E. AutoTimers</p>	<p>When this option is on, AUX3 is enabled for use by AutoTimer.</p>						
<b>P123E 4E</b>	<b>RADIO KEY PANIC PULSES AUX3</b>						
<p><b>NOTES</b> When this option is on, Radio Key Panic buttons will no longer sound alarms or report alarms by dialler.</p> <p><b>RELATED OPTIONS</b> P147E AUX3 Timer</p>	<p>When this option is on, Radio Key/s Panic button will PULSE the Aux3 output. Note that P121E 4E (Radio Key Panic Pulses AUX1) over-rides this option.</p>						
<b>P123E 8E</b>	<b>READER OUTPUT TO AUX3</b>						
<p><b>RELATED OPTIONS</b> P318E, P328E, P338E, P319E, P329E, P339E.</p>	<p>This option enables an access control reader to pulse Aux3 when a valid access card is presented. Set the reader using P318E, P328E or P338E.</p>						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

## AUX3 OUTPUT OPTIONS

P143E	ENHANCED AUX3 OPTIONS						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> All off. <b>NOTES</b> Any or all options may be selected on.	The P143E enhanced AUX3 options work along with P123E and AutoTimers to provide multiple choices of events and alarms to control AUX3. <table border="1" style="margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P143E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P143E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P143E [1E -8E] as required</td> </tr> </table> Or use <span style="background-color: #2c4e64; color: white; padding: 2px;">NessXCEL</span> app	KPX+	P143E 1E - 8E to enable/disable the option as required	NAVIGATOR	P143E > enable/disable 1E - 8E as required	SMS*	P[MasterCode]E P[InstallerCode]E P143E [1E -8E] as required
KPX+	P143E 1E - 8E to enable/disable the option as required						
NAVIGATOR	P143E > enable/disable 1E - 8E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P143E [1E -8E] as required						
<b>P143E 1E</b>	<b>AREA1 ARMED TO AUX3</b>						
	Turns on AUX3 while Area 1 is armed.						
<b>P143E 2E</b>	<b>AREA2 ARMED TO AUX3</b>						
	Turns on AUX3 while Area 2 is armed.						
<b>P143E 3E</b>	<b>HOME ARMED TO AUX3</b>						
	Turns on AUX3 while armed in Home mode.						
<b>P143E 4E</b>	<b>KEYPAD TOGGLE AUX3</b>						
	Applies to KPX+ Keypad and Saturn Keypad. When this option is on, AUX3 is turned ON or PULSED with the keypress 33* (* = Left hand STAR button). AUX3 is turned OFF with the keypress 33# (# = Right hand STAR button).						
<b>P143E 8E</b>	<b>PULSE AUX3</b>						
<b>RELATED OPTIONS</b> P147E, AUX3 Pulse Time.  <b>P143E 4E must also be ON for this option to work</b>	This option converts the P143E 1E, 2E, 3E, 4E, 5E options into a pulsed AUX3 output. AUX3 is pulsed on for the time set in P147E.						

Option No.	Description	Default	Note
P147E	AUX3 TIMER	20 sec	1 to 99 seconds

P147E	AUX3 TIMER						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> 20 sec. <b>RELATED OPTIONS</b> P143E 8E	Sets the length of pulse time for the AUX3 output when the P143E 8E option is selected. Select 1 to 99 seconds. <table border="1" style="margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P147E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P147E &gt; [New Time] E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P147E [NewTime] E</td> </tr> </table> Or use <span style="background-color: #2c4e64; color: white; padding: 2px;">NessXCEL</span> app	KPX+	P147E [New Time] E	NAVIGATOR	P147E > [New Time] E	SMS*	P[MasterCode]E P[InstallerCode]E P147E [NewTime] E
KPX+	P147E [New Time] E						
NAVIGATOR	P147E > [New Time] E						
SMS*	P[MasterCode]E P[InstallerCode]E P147E [NewTime] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



## AUX4 OUTPUT OPTIONS

Only one of the P124E options may be selected.

Option No.	Description	Default
<b>P124E</b> 1E	Zone Alarms to AUX4	OFF
2E	Enable Extension Sonalert	OFF
3E	Enable AUX4 for AutoTimer	OFF
4E	Radio Key Panic Pulses AUX4	OFF
5E	Enable AUX4 Fail To Communicate Output	OFF
6E	[not used]	OFF
7E	[not used]	OFF
8E	Reader output pulses AUX4	OFF

Any or all of the P144E options may be selected.

Option No.	Description	Default
<b>P144E</b> 1E	Area1 Armed to AUX4	OFF
2E	Area2 Armed to AUX4	OFF
3E	Home Mode arm to AUX4	OFF
4E	Keypad toggle AUX4	OFF
5E	[not used]	OFF
6E	[not used]	OFF
7E	[not used]	OFF
8E	Pulse AUX4	OFF

<b>P124E</b>	<b>AUX4 OPTIONS 1E - 8E</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 1E on.</p> <p><b>NOTES</b> Only one option can be on. Turning an option on turns off another.</p> <p><b>RELATED OPTIONS</b> P144E 1E-8E Enhanced AUX4 options. P374E 7E-8E AutoTimer1 AUX4 options. P379E 7E-8E AutoTimer2 AUX4 options. P384E 7E-8E AutoTimer3 AUX4 options. P389E 7E-8E AutoTimer4 AUX4 options.</p>	<p>P124E is one of several options which control the behaviour of the AUX4 output. Enable or disable P124E 1E to 8E as required. Only one option can be on.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white; text-align: center;"><b>KPX+</b></td> <td>P124E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #00ff00; color: white; text-align: center;"><b>NAVIGATOR</b></td> <td>P124E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #00bfff; color: white; text-align: center;"><b>SMS*</b></td> <td>P[MasterCode]E P[InstallerCode]E P124E [1E -8E] as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	P124E 1E - 8E to enable/disable the option as required	<b>NAVIGATOR</b>	P124E > enable/disable 1E - 8E as required	<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P124E [1E -8E] as required
<b>KPX+</b>	P124E 1E - 8E to enable/disable the option as required						
<b>NAVIGATOR</b>	P124E > enable/disable 1E - 8E as required						
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P124E [1E -8E] as required						
<b>P124E 1E</b>	<b>ZONE ALARMS TO AUX4</b>						
<p><b>RELATED OPTIONS</b> P59E Aux2/4 zones. P122E 1E Zone Alarms to AUX2</p>	<p>With this option ON, zones selected in P59E will turn on Aux4 when they go into alarm. The Aux4 output turns off when the panel is disarmed/reset.</p>						
<b>P124E 2E</b>	<b>ENABLE EXTENSION SONALERT</b>						
<p><b>NOTES</b> The extension beeper can either be a standard 12V sonalert or wire directly to the Ness Quantum Sonic as shown. Keypad beeps will be heard at low volume from the Quantum Sonic's onboard siren. (Normal siren sound is unaffected).</p>	<p>Enables the Aux4 output to duplicate all keypad beeps including keypress beeps. This is useful in cases where, for example, entry beeps or other keypad beeps need to be heard in more than one location on the premises. (Adding an additional keypad would also achieve the same result).</p>						
<b>P124E 3E</b>	<b>ENABLE AUX4 FOR AUTOTIMER</b>						
<p><b>RELATED OPTIONS</b> P370E to P389E. AutoTimers.</p>	<p>When this option is on, AUX4 is enabled for use by AutoTimer.</p>						
<b>P124E 4E</b>	<b>RADIO KEY PANIC PULSES AUX4</b>						
<p><b>RELATED OPTIONS</b> P148E AUX4 Timer</p>	<p>When this option is on, Radio Key/s Panic button will PULSE the Aux4 output. When this option is on, Radio Key Panic buttons will no longer sound alarms or report alarms by dialler. Note that P122E 4E (Radio Key Panic Pulses AUX2) over-rides this option.</p>						
<b>P124E 5E</b>	<b>ENABLE AUX4 FAIL TO COMMUNICATE OUTPUT</b>						
<p><b>RELATED OPTIONS</b> P370E to P389E. AutoTimers.</p>	<p>When this option is enabled AUX4 will turn on at the start of the fourth dialout attempt. This can be used as Fail To Communicate output to trigger backup communications devices such as GSM. The AUX4 output is automatically turned off on the next successful communication attempt or when the panel is next disarmed.</p>						
<b>P124E 8E</b>	<b>READER OUTPUT TO AUX4</b>						
<p><b>RELATED OPTIONS</b> P318E, P328E, P338E, P319E, P329E, P339E.</p>	<p>This option enables an access control reader to pulse AUX4 when a valid access card is presented. Set the reader using P318E, P328E or P338E.</p>						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

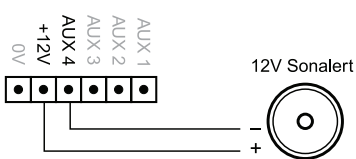
## AUX4 OUTPUT OPTIONS

P144E	ENHANCED AUX4 OPTIONS						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> All off. <b>NOTES</b> Any or all options may be selected on.	The P144E enhanced AUX4 options work along with P124E and AutoTimers to provide multiple choices of events and alarms to control AUX4. <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P144E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P144E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P144E [1E -8E] as required</td> </tr> </table> Or use <span style="border: 1px solid black; padding: 2px;">NessXCEL</span> app	KPX+	P144E 1E - 8E to enable/disable the option as required	NAVIGATOR	P144E > enable/disable 1E - 8E as required	SMS*	P[MasterCode]E P[InstallerCode]E P144E [1E -8E] as required
KPX+	P144E 1E - 8E to enable/disable the option as required						
NAVIGATOR	P144E > enable/disable 1E - 8E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P144E [1E -8E] as required						
<b>P144E 1E</b>	<b>AREA1 ARMED TO AUX4</b>						
	Turns on AUX4 while Area 1 is armed.						
<b>P144E 2E</b>	<b>AREA2 ARMED TO AUX4</b>						
	Turns on AUX4 while Area 2 is armed.						
<b>P144E 3E</b>	<b>HOME ARMED TO AUX4</b>						
	Turns on AUX4 while armed in Home mode.						
<b>P144E 4E</b>	<b>KEYPAD TOGGLE AUX4</b>						
	When this option is on, AUX4 is turned ON or PULSED with the keypress 44* (* = Left hand STAR button). AUX4 is turned OFF with the keypress 44# (# = Right hand STAR button).						
<b>P144E 8E</b>	<b>PULSE AUX4</b>						
<b>RELATED OPTIONS</b> P148E, AUX4 Pulse Time.  <b>P144E 4E must also be ON for this option to work</b>	This option converts the P144E 1E, 2E, 3E, 4E, 5E options into a pulsed AUX4 output. AUX4 is pulsed on for the time set in P148E.						

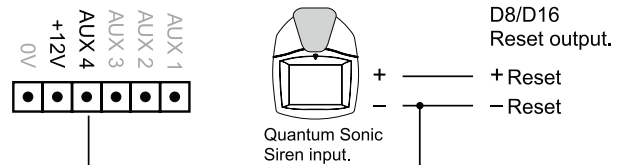
Option No.	Description	Default	Note
P148E	AUX4 TIMER	20 sec	1 to 99 seconds

P148E	AUX4 TIMER						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> 20 sec. <b>RELATED OPTIONS</b> P144E 8E	Sets the length of pulse time for the AUX4 output when the P144E 8E option is selected. Select 1 to 99 seconds. <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P148E [New Time] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P148E &gt; [New Time] E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P148E [NewTime] E</td> </tr> </table> Or use <span style="border: 1px solid black; padding: 2px;">NessXCEL</span> app	KPX+	P148E [New Time] E	NAVIGATOR	P148E > [New Time] E	SMS*	P[MasterCode]E P[InstallerCode]E P148E [NewTime] E
KPX+	P148E [New Time] E						
NAVIGATOR	P148E > [New Time] E						
SMS*	P[MasterCode]E P[InstallerCode]E P148E [NewTime] E						

### WIRING EXAMPLES



Aux4 driving an extension sonalert. See P124E 2E.



Aux4 driving the Quantum Sonic onboard siren as an extension sonalert.

Use 106-013 Relay Board or 100-699 or 106-011 Output Expander

## AUX5, AUX6, AUX7, AUX8 OUTPUT OPTIONS

AUX6, 7 & 8 are programmed as per the description for AUX5.

Use the option numbers:

P151E for AUX5 output options

P152E for AUX6 output options

P153E for AUX7 output options

P154E for AUX8 output options

Option No.	Description	Default
<b>P151E</b> 1E	[not used]	OFF
<b>or</b> 2E	[not used]	OFF
<b>P152E</b> 3E	[not used]	OFF
<b>P153E</b> 4E	Keypad toggle AUX5	OFF
<b>P154E</b> 5E	[not used]	OFF
6E	[not used]	OFF
7E	Reader Output to AUX5	OFF
8E	Pulse AUX5	OFF

P151E	AUX5 OPTIONS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> As per table</p>	<p>When this option is on, AUX5 (on the Output Expander/s) is turned ON or PULSED using the Auxiliary Control menu on the Ness Navigator touch screen keypad.</p> <table border="1"> <tr> <td><b>KPX+</b></td> <td>P151E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td><b>NAVIGATOR</b></td> <td>P151E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td><b>SMS*</b></td> <td>P[MasterCode]E P[InstallerCode]E P151E [1E -8E] as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	P151E 1E - 8E to enable/disable the option as required	<b>NAVIGATOR</b>	P151E > enable/disable 1E - 8E as required	<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P151E [1E -8E] as required
<b>KPX+</b>	P151E 1E - 8E to enable/disable the option as required						
<b>NAVIGATOR</b>	P151E > enable/disable 1E - 8E as required						
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P151E [1E -8E] as required						
P151E 4E	KEYPAD TOGGLE AUX5						
	When this option is on, AUX5 (on the Output Expander/s) is turned ON or PULSED using the Auxiliary Control menu on the Ness Navigator touch screen keypad.						
P151E 7E	READER OUTPUT TO AUX5						
<p><b>FACTORY DEFAULT</b> OFF</p> <p><b>RELATED OPTIONS</b> P318E, P328E, P338E, P319E, P329E, P339E</p>	<p>This option enables an access control reader to pulse AUX5 when a valid access card is presented. Set the reader using P318E, P328E or P338E.</p>						
P151E 8E	PULSE AUX5						
<p><b>RELATED OPTIONS</b> P318E, P328E, P338E, P319E, P329E, P339E.</p>	<p>This option sets AUX5 to Pulse (momentary output) for any action that triggers AUX5 including keypad operation (see P151E 4E). Set the pulse on time using P155E.</p>						

Option No.	Description	Default	Note
P155E	AUX5 TIMER	20 sec	1 to 99 seconds
P156E	AUX6 TIMER	20 sec	1 to 99 seconds
P157E	AUX7 TIMER	20 sec	1 to 99 seconds
P158E	AUX8 TIMER	20 sec	1 to 99 seconds

P155E, P156E, P157E, P158E	AUX5 – AUX8 TIMERS						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 20 sec.</p> <p><b>RELATED OPTIONS</b> P151E 8E Pulse AUX5 P152E 8E Pulse AUX6 P153E 8E Pulse AUX7 P154E 8E Pulse AUX8</p>	<p>Sets the length of pulse time for the AUX5 – AUX8 outputs when the outputs are set for Pulse mode. Select 1 to 99 seconds.</p> <table border="1"> <tr> <td><b>KPX+</b></td> <td>PxxxE [New Time] E</td> </tr> <tr> <td><b>NAVIGATOR</b></td> <td>PxxxE &gt; [New Time] E</td> </tr> <tr> <td><b>SMS*</b></td> <td>P[MasterCode]E P[InstallerCode]E PxxxE [NewTime] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	PxxxE [New Time] E	<b>NAVIGATOR</b>	PxxxE > [New Time] E	<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E PxxxE [NewTime] E
<b>KPX+</b>	PxxxE [New Time] E						
<b>NAVIGATOR</b>	PxxxE > [New Time] E						
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E PxxxE [NewTime] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

# PROGRAMMING

Option No.	Description	Default	Note
P160E	ALARM SIREN VOLUME	99	1 to 99 levels
P161E	FIRE SIREN VOLUME	99	1 to 99 levels
P162E	CHIRP SIREN VOLUME	16	1 to 99 levels

P160E	ALARM SIREN VOLUME						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> Level 99 (highest)	Sets the Audible Alarm volume level for the Siren output. Select volume from 1 (lowest) to 99 (highest). <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P160E [New Value] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P160E &gt; [New Value] E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P160E [NewValue] E</td> </tr> </table> Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app	KPX+	P160E [New Value] E	NAVIGATOR	P160E > [New Value] E	SMS*	P[MasterCode]E P[InstallerCode]E P160E [NewValue] E
KPX+	P160E [New Value] E						
NAVIGATOR	P160E > [New Value] E						
SMS*	P[MasterCode]E P[InstallerCode]E P160E [NewValue] E						
P161E	FIRE SIREN VOLUME						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> Level 99 (highest)	Sets the Fire Alarm volume level for the Siren output. Select volume from 1 (lowest) to 99 (highest). <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P161E [New Value] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P161E &gt; [New Value] E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P161E [NewValue] E</td> </tr> </table> Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app	KPX+	P161E [New Value] E	NAVIGATOR	P161E > [New Value] E	SMS*	P[MasterCode]E P[InstallerCode]E P161E [NewValue] E
KPX+	P161E [New Value] E						
NAVIGATOR	P161E > [New Value] E						
SMS*	P[MasterCode]E P[InstallerCode]E P161E [NewValue] E						
P162E	CHIRP SIREN VOLUME						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> Level 16 (low volume)	Sets the Chirp volume level for the Siren output. Select volume from 1 (lowest) to 99 (highest). <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P162E [New Value] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P162E &gt; [New Value] E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P162E [NewValue] E</td> </tr> </table> Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app	KPX+	P162E [New Value] E	NAVIGATOR	P162E > [New Value] E	SMS*	P[MasterCode]E P[InstallerCode]E P162E [NewValue] E
KPX+	P162E [New Value] E						
NAVIGATOR	P162E > [New Value] E						
SMS*	P[MasterCode]E P[InstallerCode]E P162E [NewValue] E						

Option No.	Description	ZONES 1-8 (D8 & D16)								ZONES 9-16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P125E	ENABLE HARDWIRED ZONES	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

P125E	ENABLE HARDWIRED ZONES						
<b>PROGRAM MODE LEVEL</b> Installer <b>FACTORY DEFAULT</b> All on. <b>NOTES</b> THIS OPTION APPLIES ONLY TO WIRED ZONES AND HAS NO EFFECT ON RADIO ZONES.	This option allows hardwired zone inputs to be enabled or disabled. Disabled zones are ignored and do not need to be terminated with end of line resistors. This option has no effect on radio zones. <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P125E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P125E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P125E [Zone Number] E</td> </tr> </table> Or use <span style="background-color: black; color: white; padding: 2px;">NessXCEL</span> app  <span style="background-color: #e91e63; color: white; padding: 2px;">KPX+</span> <b>PRO TIP</b> When selecting zones, 0 E selects all, MEMORY E deselects all.	KPX+	P125E [Zone Number] E to enable/disable zones	NAVIGATOR	P125E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P125E [Zone Number] E
KPX+	P125E [Zone Number] E to enable/disable zones						
NAVIGATOR	P125E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P125E [Zone Number] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

<b>P126E</b>	1E	Enable Double key PANIC	ON
	2E	Enable Double key FIRE	OFF
	3E	Enable Double key MEDICAL & Nav MEDICAL	OFF
	4E	Enable Entry Chime, DAY Mode	OFF
	5E	Enable Entry Chime, HOME Mode	OFF
	8E	Disable One Digit At A Time display	ON

## P126E

### MISC KEYPAD OPTIONS

#### PROGRAM MODE LEVEL

Installer

#### FACTORY DEFAULT

1E on. Double key Panic enabled.  
2E – 5E off.  
8E on.

#### NOTES

- One or all options can be enabled.
- To operate KPX/Saturn double key functions - in normal operating mode press and hold the matching keys for at least 1.5sec.

Various programming options for Ness KPX+, Saturn and Navigator keypads.

<b>KPX+</b>	P126E xE to enable/disable an option as required
<b>NAVIGATOR</b>	P126E > enable/disable an option as required
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P120E 1E

Or use **NessXCEL** app

- 1E KPX & SATURN. Enables double key PANIC. (Both PANIC Keys together)  
2E KPX & SATURN. enables double key FIRE. (Both FIRE keys 1, 3, together)  
3E KPX & SATURN. Enables double key MEDICAL (Both MEDICAL keys 4, 6, together) and enables MEDICAL on Navigator.  
4E Enables Entry Chime in Day mode. Used to announce entry in Day mode.  
5E Enable Chime in Home Mode. Used to announce entry in Home mode.  
8E Disable One Digit At A Time Display. This allows Navigator keypads to immediately display numeric options.

<b>P129E</b>	1E	0k EOL resistors	OFF
	2E	1k EOL resistors	OFF
	3E	1.5k EOL resistors	OFF
	4E	2.2k EOL resistors	ON
	5E	3.3k EOL resistors	OFF
	6E	3.9k EOL resistors	OFF
	7E	4.7k EOL resistors	OFF
	8E	5.6k EOL resistors	OFF
	9E	6.8k EOL resistors	OFF
	10E	8.2k EOL resistors	OFF
	11E	10k EOL resistors	OFF
	12E	12k EOL resistors	OFF
	13E	22k EOL resistors	OFF

## P129E

### END OF LINE RESISTOR OPTIONS

#### PROGRAM MODE LEVEL

Installer

#### FACTORY DEFAULT

4E, 2.2k

#### NOTES

- Only one option can be on. Turning an option on turns off another.
  - The EOL value selected applies to all zone inputs and the external tamper input, except the keyswitch input which is always 2K2.
  - The keyswitch input (if enabled) always uses a 2K2 resistor regardless of the global EOL resistor value set by P129E.
- Also see P60E 2E, 3E, page 33.

The End Of Line Resistor value for all zones and the external tamper can be programmed with one of 13 different resistor values.

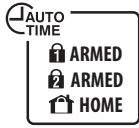
This allows the panel to be easily retro-fitted into almost any existing installation.

<b>KPX+</b>	P129E xE to select one option as required
<b>NAVIGATOR</b>	P129E > select one option as required
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P129E xE

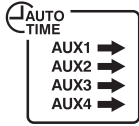
Or use **NessXCEL** app

**AUTO-TIME FEATURES**

D8x/D16x V6 onwards features sophisticated new 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 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.

**EXAMPLE 1**

AREA 1 to Auto Arm Monday to Friday at 6:30pm with warning beeps 10 minutes prior to the event.

The keypad will start a slow continuous beep at 6:20pm, then at 6:29pm the beeps change to a faster rate for the final minute.

**TO SILENCE THE BEEPS** during the warning period. Pressing any key on the keypad will stop the beeps on the keypad (and the Reset output) and then start again for the final minute with a slightly faster beep.

**TO DELAY ARMING** enter a valid user code on its own. (The user code must be assigned to an Area to work). This will turn off the warning beeps and the Auto Arm for 1 hour - when the warning process will start again.

**Programming Steps**

AutoTimer 1			
<b>P350E</b>	Minutes 0-59		30
<b>P351E</b>	Hours 0-23		18
<b>P352E</b>	Days (1=Sunday)	2, 3, 4, 5, 6	
<b>P353E</b>	1E	AREA 1 ARM	ON
	6E	KEYPAD Beeps	ON
	8E	Extend AutoTIME	ON
<b>P390E</b>	AutoTime warning		10

In this example, if reporting to a central station, the arming will be sent as User 91.

**EXAMPLE 2**

AUX1 turns on for one minute every Saturday at 8pm.

This could be used to turn on sprinklers, a pool or spa pump, lights or anything that can be triggered by a relay output. (Requires optional 106-013 Four Relay Board).

**Programming Steps**

AutoTimer 2			
<b>P355E</b>	Minutes 0-59		00
<b>P356E</b>	Hours 0-23		20
<b>P357E</b>	Days (1=Sunday)	7	
<b>P359E</b>	6E	AUX1 PULSE	ON
<b>P145E</b>	AUX1 Pulse Time		60

*TIP 1. The output can also be pulsed on (or toggled on/off) anytime using the 11\* or 11# keypad commands. See page 13.*

*TIP 2. For longer periods (up to a week), a pair of AutoTimers can be used - one to turn the AUX ON & the other to turn it OFF.*

**EXAMPLE 3**

User Code 56 is programmed to work only on Monday-Friday between 7am to 5pm.

The user code will be disabled outside of these times. (Applies only to keypad codes. Radio keys and prox fobs will work anytime regardless.)

**Programming Steps**

Enable Extra Option 9E for user code 56 to enable the user code for use by AutoTime.

EXCLUDE+E toggles Extra Options mode. See page 24.	9E Enable user Code for AutoTime
<b>P256E</b>	User Code 56
	ON

AutoTimer 3 Enables the user code.

AutoTimer 3			
<b>P360E</b>	Minutes 0-59		00
<b>P361E</b>	Hours 0-23		07
<b>P362E</b>	Days (1=Sunday)	2, 3, 4, 5, 6	
<b>P363E</b>	4E	Code Enable	ON

AutoTimer 4 Disables the code.

AutoTimer 4			
<b>P365E</b>	Minutes 0-59		00
<b>P366E</b>	Hours 0-23		07
<b>P367E</b>	Days (1=Sunday)	2, 3, 4, 5, 6	
<b>P368E</b>	5E	Code Disable	ON



The power and flexibility of AutoTime means it has numerous programmable options which makes **NessComms software** the ideal programming tool.

The NessComms graphical user interface makes it easy to program complex options on your PC or laptop. Then simply connect and download.

NessComms makes your life easier! See page 5 for further information.



Auto-Time features depend on the onboard clock being set to the current time and date. If your system has an active SIM card the time is automatically set by the cellular network. If the panel is being used 'offline' without a SIM card then use options P340-P345E to set the clock, page 75.

Option No.	Description	Default	Note
P340E	REAL TIME CLOCK SET <b>MINUTES</b>	00	00–59 minutes
P341E	REAL TIME CLOCK SET <b>HOURS</b>	00	00–23 hours (00=midnight)
P342E	REAL TIME CLOCK SET <b>DAY</b>	01	01–31 days
P343E	REAL TIME CLOCK SET <b>MONTH</b>	01	01–12 months
P344E	REAL TIME CLOCK SET <b>YEAR</b>	09	00–63 (2000–2063)

## P340 - P344E

### PROGRAM MODE LEVEL

Installer, User

### FACTORY DEFAULT

none

### NOTES

- 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.
- Real Time Clock memory is regularly saved to non-volatile memory and is retained on power down. You should always check the clock settings on power up and adjust the time and date if necessary.

## REALTIME CLOCK PROGRAMMING

These options are used to program the time and date into the Realtime Clock (RTC).

<b>KPX+</b>	PxxxE [New Value] E
<b>NAVIGATOR</b>	PxxxE > [New Value] E
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E PxxxE [NewValue] E

Or use **NessXCEL** app

**P340E** Real Time Clock minutes. Enter a value between 00 and 59. Default 00 minutes.

**P341E** Real Time Clock Hours. Enter a value between 00 and 23. Default 00 hours.

**P342E** Real Time Clock Day of the month. Enter a value between 01 and 31. Default 01, (1st day of the month). Ensure that the setting does not exceed the days in the current month. The panel does not cross-check this setting.

**P343E** Real Time Clock Month. Enter a value between 01 and 12. Default 01, (January).

**P344E** Real Time Clock Year. Enter a value between 00 and 63. (2000–2063). Default 09, (2009).

## P390

### PROGRAM MODE LEVEL

Installer

### FACTORY DEFAULT

5 minutes

### NOTES

This option sets the warning period for all AutoTimers.

### RELATED OPTIONS

P353E 6E AutoTimer1, keypad beeps  
 P358E 6E AutoTimer2, keypad beeps  
 P363E 6E AutoTimer3, keypad beeps  
 P368E 6E AutoTimer4, keypad beeps  
 P373E 6E AutoTimer5, keypad beeps  
 P378E 6E AutoTimer6, keypad beeps  
 P383E 6E AutoTimer7, keypad beeps  
 P388E 6E AutoTimer8, keypad beeps

## AUTOTIME WARNING PERIOD

This option enables a keypad beep to warn that an AutoTime action is due to begin.

Set the minutes for the start of the warning period.

The Keypad Beeps option for the required timer/s must also be enabled.

<b>KPX+</b>	P39E [New Value] E
<b>NAVIGATOR</b>	P390E > [New Value] E
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P390E [NewValue] E

Or use **NessXCEL** app

The allowed range is 1 to 99 minutes.

## P392E 1E

### PROGRAM MODE LEVEL

Installer

### FACTORY DEFAULT

1E OFF

## ENABLE AUTOTIME USER CODES

Toggle the current setting for the ENABLING or DISABLING of USER Codes as set by the AutoTIMERS.

If the USER codes are currently DISABLED but the current AutoTIME period means that they should be ENABLED then use this option.

<b>KPX+</b>	P392E 1E to enable/disable the option as required
<b>NAVIGATOR</b>	P392E > enable/disable 1E as required
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P392E 1E as required

Or use **NessXCEL** app

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



**P350 - P354E**

**PROGRAM MODE LEVEL**

Installer

**FACTORY DEFAULT**

none

**RELATED OPTIONS**

- P121E Enable AUX1 for AutoTimers
- P122E Enable AUX2 for AutoTimers
- P123E Enable AUX3 for AutoTimers
- P124E Enable AUX4 for AutoTimers
- P145E AUX1 Pulse Time.
- P146E AUX2 Pulse Time.
- P147E AUX3 Pulse Time.
- P148E AUX4 Pulse Time.
- P390E AutoTime Warning.
- P392E Enable AutoTime User Codes
- P202E - P256E Extra Option 9. Enable user codes for AutoTime.

**NOTE 1.** Do not use the same AutoTimer to enable and disable user codes. For example, use AutoTimer1 to set the Code Enable time and AutoTimer2 to set the Code Disable Time.

The user codes must also be enabled for AutoTime using Extra Options for user codes.

**NOTE 2.** If Open/Closing reports are enabled a Closing Extended report (Contact ID 464) is sent to the control room.

**NOTE 3.** If Open/Closing reports are programmed, user Codes 91 to 98 are used to identify AutoTIME arming and disarming. AutoTime1 is code 91 then consecutively through to AutoTIME 8 is code 98.

**NOTE 4.** Note that each AutoTimer controls different AUX outputs.

**NOTE 5.** These instructions cover the programming of AutoTimer1. The programming for AutoTimers 2 to 8 is identical but with a different set of option numbers. See the Options Summary on page 92 for a full list of programming options for each AutoTimer.

**HANDY HINT.**

There are two ways to turn outputs on by AutoTimer - depending on how long the AUX output is to stay on.

1. If the ON period is less than 20 seconds then the Pulse Output option can be used to get timing periods measured in seconds. This method only requires one AutoTimer to be programmed.
2. For longer periods (up to a week), a pair of AutoTimers can be used - one to turn the AUX ON & the other to turn it OFF.

**AUTOTIMER1 / AutoTimers 2-8** NOTE 5

**STEP 1**

Set the the Time and Day Of The Week at which AutoTimer1 will activate.

<b>KPX+</b>	PxxxE [New Value] E
<b>NAVIGATOR</b>	PxxxE > [New Value] E
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E PxxxE [NewValue] E

Or use **NessXCEL** app

**P350E** AutoTimer1 Minutes. Enter a value between 00 and 59.

**P351E** AutoTimer1 Hours. Enter a value between 00 and 23. (00 = Midnight).

**P352E** AutoTimer1 Day. Enter values between 1 and 7. (1E = Sunday). If the AutoTimer event is intended to take place every day, then enable all days, 1E-7E.

**STEP 2**

Set the Actions which will take place on the Time and Day set above.

<b>KPX+</b>	Pxxx xE to enable/disable an option as required
<b>NAVIGATOR</b>	PxxxE > enable/disable an option as required
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P392E 1E as required

Or use **NessXCEL** app

**P353E or P354E**

**1E-8E** to turn an option ON or OFF. Multiple options can be selected.

TO ENABLE AUTO-ARMING

**P353E 1E Area1 Arm.** Arms Area1 at the time & day set by AutoTimer1.

**P353E 2E Area2 Arm.** Arms Area2 at the time & day set by AutoTimer1.

**P353E 3E Home Arm.** Arms Home Mode at the time & day set by AutoTimer1.

*Note. Option 3E enables Home Arm for AutoTimers 1 to 6 but enables Day Mode Arm for AutoTimers 7 and 8.*

TO ENABLE/DISABLE USER CODES BY AUTOTIMER NOTE 1

**P353E 4E Code Enable.** User Codes enabled for AutoTime become active from the time set above. CODE ENABLE/DISABLE allows a period to be set on selected days of the week during which selected user codes can be used. Outside this period the codes will not work.

**P353E 5E Code Disable.** User Codes enabled for AutoTime are disabled at the time set above.

TO ENABLE PRE-EVENT WARNING BEEPS

**P353E 6E Keypad Beeps.** Turn this option on to enable the AutoTimer Warning (continuous slow beeps). The keypad/s will beep to warn that this AutoTimer is about to begin. Keypad beeps begin xx minutes before the AutoTimer is due to start as set by option P390E.

1. To **silence the beeps** during the warning period. Pressing any key on the keypad will stop the beeps on the keypad (and the Reset output) and then start again for the final minute with a slightly faster beep.
2. 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 turn off the warning beeps and the Auto Arm for 1 hour - when the warning process will start again.

**P353E 7E Reset Output Beeps.** If 6E is ON, then this option also beeps the RESET output for a much louder AutoTimer warning if required.

**P353E 8E Enable AutoTimer Extension.** This allows the AutoTIME Arming NOTE 2, Code Enable & Disable and the Aux3, Aux4 actions to be delayed by entering a USER code during the Warning period.

TO ENABLE AUTO-DISARMING FOR EACH AREA NOTE 3

**P354E 1E Area1 Disarm.** Disarms Area1 at the time & day set by AutoTimer1.

**P354E 2E Area2 Disarm.** Disarms Area2 at the time & day set by AutoTimer1.

**P354E 3E Home Disarm.** Disarms Home Mode at the time & day set by AutoTimer1.

**P354E 4E** [not used]

TO CONTROL OUTPUTS BY AUTOTIMER NOTE 4 & NOTE 5

These AUX actions will take place at the time & day set by AutoTimer1.

**P354E 5E AUX1 Toggle.** Changes the current state of the AUX1 output. If ON then it will turn OFF and if OFF will turn ON.

**P354E 6E AUX1 Pulse.** Turns on the AUX1 output for a time period set P145E.

**P354E 7E AUX2 Toggle.** Changes the current state of the AUX2 output. If ON then it will turn OFF and if OFF will turn ON.

**P354E 8E AUX2 Pulse.** Turns on the AUX2 output for a time period set P146E.

*Note. AUX outputs must be enabled for control by AutoTimers at options P121E-P124E.*

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

## RADIO DEVICES OPERATION

**ALARM:** Any Ness radio device can operate on any zone. Hardwired zones continue to operate in parallel.

Radio Keys can also operate on radio zones for special purposes, but they should normally be used as Radio Codes.

**Keyswitch input:** A Radio Device programmed to Zone 8 will still work as an alarm even if the Zone 8 input operation has been changed to Keyswitch operation. The P60E 2E and 3E options only affect the Zone 8 terminal inputs.

**VIBRATION:** Radio device zone signals IGNORE the P30E–P38E vibration sensor settings.

**TAMPER REPORT:** Radio Device Tamper operation depends on the Armed State of the control panel.

**RADIO TAMPER:** causes the keypad to continuously beep and also to flash the RADIO, TAMPER and the ZONE (identifying the detector) lights. Pressing any key on the keypad or sending a TAMPER RESTORE will clear this warning.

**LOW BATTERY REPORT:** A low battery gives 10 beeps and flashes the RADIO & the BATTERY light. The ZONE light identifying the radio device is also ON. The flashing lights stop when any key on the keypad is pressed or a detector code with no low battery is received. Low Battery generates HISTORY and DIALLER reports ONCE only (until the low battery is fixed and a restore report is received).

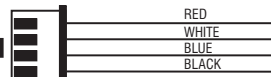
**Supervision:** If a zone has the P65E option ON and a radio code has been programmed for that zone, then the supervision is active. This means that the radio detector does not need to have its SUPER enabled (via header link) for the SUPERVISED timeout to occur. (Useful as an inactivity alarm). A zone supervision failure always flashes the identifying ZONE light and the RADIO light.

See pages 39 for more information about Zone Supervision.

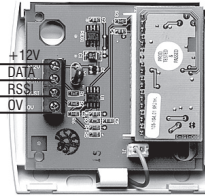
## NESS RADIO INTERFACE

The Ness Radio Interface (Part No. 100–200) is the optional serial radio receiver required to enable all radio functions. Connection to the control panel is via a 4 wire loom and plug supplied with the Ness Radio Interface.

### NESS D8X/D16 CONTROL PANEL



### NESS RADIO INTERFACE Part No. 100–200

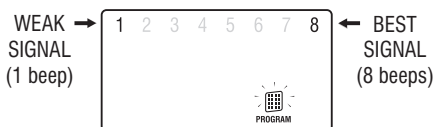


### NOTES

- The Ness Radio Interface should be installed outside the control panel to prevent interference from the control panel's electronics. If the Radio Interface must be installed inside a metal enclosure, the antenna wire should protrude outside the enclosure.
- In cases where radio reception needs to be improved, the Radio Interface can be installed up to 50 metres away from the control panel. Use 14/0.20 SHIELDED cable or equivalent. The shield can either be connected to the EARTH connection or left unconnected. Leave the shield unconnected at the receiver end.
- For best performance, the antenna wire should be kept straight and not coiled, shortened or extended. An optional external antenna is available (100-046) for use in areas where the radio signal is marginal.

### NOTES

- Signal strength of Radio Keys can be tested in USER PROGRAM Mode or INSTALLER PROGRAM Mode.
- Signal strength of all other Radio Devices is tested in INSTALLER PROGRAM Mode.
- PRESS 3E to test the signal strength of the selected transmitter ONLY. (Other devices will be ignored).
- PRESS 4E to test the signal strength of ANY Ness transmitter (including unprogrammed devices).



## RADIO SIGNAL STRENGTH TEST

The Radio Signal Strength Test can be used to test the radio signal from any Ness radio device. The strength of the radio signal received is displayed on the zone lights 1 to 8 and beeped by the keypad.

The higher the number displayed (and beeped) the stronger the signal received.

### TEST SEQUENCE:

- 1 Enter the program option for the radio device to be tested  
For Radio Keys: options P201E–P256E. For Radio Devices, options P101E–P116E.
- 2 Press 3E
- 3 Trigger the radio device
  - One of zone lights 1 to 8 will turn ON to indicate the signal strength from the transmitter.
  - The Signal Strength display remains on until another command is entered.
  - To clear the display and re-test the transmitter, simply press 3E again (or 4E to test any other transmitter).

## P101E – P116E

### PROGRAM MODE LEVEL

Installer

### FACTORY DEFAULT

No Radio Devices programmed.

### NOTES

- Radio Device programming is done by 'learning' the code by radio.
- Radio Devices can be programmed and deleted by keypad or SMS.
- Some Ness Radio Devices send separate Alarm and Restore signals.
- For special purposes, radio zones can be also programmed to accept radio keys. In this case the zone can not also be programmed to accept a radio device.
- Late model Ness Radio PIRs and Radio Reed Switches send Supervision signals.

### SUPERVISION RELATED OPTIONS

**P65E** Supervised Radio Zones.

**P66E** Radio Supervision Alerts.

**P67E** Radio Supervision Time.

**P75E 12E** Radio Supervision Fail Report.

### RADIO DEVICES - OPTION TABLE

D8 & D16	Zone 1	P101E
	Zone 2	P102E
	Zone 3	P103E
	Zone 4	P104E
	Zone 5	P105E
	Zone 6	P106E
	Zone 7	P107E
	Zone 8	P108E
D16	Zone 9	P109E
	Zone 10	P110E
	Zone 11	P111E
	Zone 12	P112E
	Zone 13	P113E
	Zone 14	P114E
	Zone 15	P115E
	Zone 16	P116E

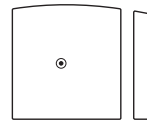


**TIP:** To prevent conflicting radio signals when programming Radio Devices, disable each device once you have finished programming it. (Remove the battery).

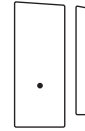
Remember to enable all the devices when programming is completed.



106-168 LUX Radio PIR  
106-170 LUX PET Radio PIR



100-527  
Universal Transmitter



100-662  
Mini Radio  
Reed Switch



106-091  
Micro Radio  
Reed Switch

### RADIO DEVICE PROGRAMMING

Each of the zones of the D8x or D16x can be a radio zone. Once programmed, zones can accept both radio devices and normal zone inputs simultaneously.

The optional 100-200 Ness Radio Interface is required for radio devices to operate.

A radio device is any type of Ness transmitter including Radio PIR, Radio Reed Switches, Radio Smoke Detector.

Up to 8 (D8) or 16 (D16) radio devices can be enrolled, one per zone.

### PROGRAMMING RADIO DEVICES BY KEYPAD

**KPX+** **NAVIGATOR**

Applies to Radio PIRs, Radio Pendant, Radio Smoke Detector.

- 1 Select a zone using P101E – P116E (options P109E–P116E apply to D16 only).  
If the zone already has a Radio Device programmed the KPX ARMED light will be ON. Or on Navigator keypad 'Radio Programmed' will display. Press 0E (or Delete Device) to delete.
- 2 **KPX+** Press 1E (The READY light will turn ON to indicate the zone is ready to accept the Radio Device.)  
**NAVIGATOR** Press
- 3 Send a Learn signal from the radio device by inserting the battery.  
A. If the Radio Device is accepted, the READY light will turn off, the ARMED light will turn on and 3 beeps will sound. On the Navigator keypad 'Radio Programmed' will display.  
B. If an error beep sounds, the Radio Device is already assigned to another zone and must be cleared from that zone first.  
C. If SUPERVISED SIGNALS have also been successfully recognised, the TAMPER light will turn ON.

#### EXAMPLE: To program a Radio PIR on zone 1:

**P101E 1E (or press Program Device)** Insert the battery in the Radio PIR

### PROGRAMMING SEQUENCE – WITH RESTORALS

Suitable for Radio Reed Switches.

The procedure is same as above however at Step 3 you will transmit the Restore signal. Before beginning the programming steps make sure the reed switch battery is inserted then move the magnet away from the reed switch and leave it separated. Then proceed with steps 1 & 2 above. At step 3, move the magnet to the reed switch to send a restoral signal as the learn signal.

### PROGRAMMING RADIO DEVICES BY SMS

**SMS**

Radio devices can be programmed remotely by SMS but of course somebody must be on site to initiate the learn signal on the radio device being programmed.

Example, to program a radio PIR on zone 1.

**NOTE BEFORE.** Make sure that no other radio devices send a signal during this sequence to prevent programming the wrong device.

The SMS string below enters program mode, selects zone 1, deletes any existing device, selects learn mode, then the panel will wait for 10 seconds for a learn signal. At this point you should insert the batteries in the radio PIR. Once the device is successfully programmed you will hear 3 beeps from the keypad. The panel will exit program mode on expiry of the 10 second learn window.

**SMS** P[MasterCode]E P[InstallerCode]E P101E 0E P101E 1E

### DELETING A RADIO DEVICE

- 1 Use P101E to P116E to select the zone
- 2 **KPX+** Press 0E to clear the device (3 beeps will sound)  
**NAVIGATOR** Press
- 2 **SMS** add 0E after the option number. eg, to delete the radio device on zone 1, send P[MasterCode]E P[InstallerCode]E P101E 0E

## P201E – P256E

### PROGRAM MODE LEVEL

Installer

### FACTORY DEFAULT

No Radio Codes, all code are keypad codes.

### NOTES

- User Code 1 (Master Code) is always a Keypad Code.
- Radio Codes can be deleted by keypad in the case of a lost Radio Key.
- Radio Keys are assigned to User Codes, so that Open/Close reports are identified by user number when the control panel is base station monitored. (If Open/Close reports are enabled)
- Enable a User Code as a Radio Code in Extra Options - turn on 5E.

### RELATED OPTIONS

P101E–P116E Programming Radio Devices.

### TO DELETE A RADIO CODE

Any Radio Code can be deleted as required.

Delete a radio code if a) the radio key has been lost or b) prior to programming a new radio key to replace another.

Radio Codes are automatically deleted when the user code type is changed to keypad code or reader code.


EXAMPLE: To delete Radio Code 56. In Installer Program Mode: Press

**KPX+** Press P256E 0E  
**NAVIGATOR** Press P256E 

### EXTRA OPTIONS MODE

To enable a User Code as a Radio Code go to EXTRA OPTIONS MODE and enable option 5E for that code. See steps 1 to 4 in Programming Sequence.

**KPX+** Press EXCLUDE E to enter and exit Extra Options mode.

**NAVIGATOR** Press Extra Code Options to enter Extra Options mode. Press  to exit



## RADIO CODES

Each of the 56 User Codes, except for the Master Code, can be programmed to be Radio Codes. This allows up to 55 Ness Radio Keys to be used for Arming and Disarming of the panel. The Ness RKP Radio Keypad can also be used with the D8/D16, (see the RKP installer manual). The optional 100–200 Ness Radio Interface is required for radio operation.

### PROGRAMMING RADIO KEYS

Use the Extra Options programming mode to enable selected user codes as Radio Codes. When a user code is enabled as a Radio Code, its Keypad Code, (if any), is automatically deleted.

### PROGRAMMING SEQUENCE:

- 1 In Installer Program Mode, enter the option number for the user code which will be become a radio code. (Example, enter P256E for user code 56).
- 2 **KPX+** Press EXCLUDE E to enter Extra Options mode. (Exclude icon is on).  
**NAVIGATOR** Press Extra Code Options.
- 3 **KPX+** Press 5E to enable that user code as a Radio Code. (Icon 5 is on).  
**NAVIGATOR** Press 5 - Radio Code.
- 4 **KPX+** EXCLUDE E to exit Extra Options mode. (The Exclude icon is off).  
**NAVIGATOR** Press  to exit the Extra Options screen.
- 5 **KPX+** Press 1E (The OK icon will turn ON to indicate ready to accept the Radio Key)  
**NAVIGATOR** Press 

If a code is already programmed the OK icon will not turn on and a warning beep will sound. To clear the code, press 0E to clear existing codes then go back to step 5.
- 6 Press the OFF button on the Radio Key to be programmed
 

If the Radio Key is accepted, the OK icon will turn off and 3 beeps will sound.

If the OK icon stays on and a warning beep sounds, the Radio Key is already assigned to another User Code and must be cleared from that User Code first.

### PROGRAMMING RADIO KEYS BY SMS SMS

Radio keys can be programmed remotely by SMS but of course somebody must be on site to initiate the learn signal on the radio key being programmed.

Example, to program a Ness RK4 Radio key as user 56.

The SMS string below enters program mode, selects user 56, enables the radio code, deletes any existing device, selects learn mode, then the panel will wait for 30 seconds for a learn signal. At this point you should press the OFF button on the radio key. Once the device is successfully programmed you will hear 3 beeps from the keypad. The panel will exit program mode on expiry of the 30 second learn window.

SMS P[MasterCode]E P[InstallerCode]E P256E XE5EXE 0E 1E

When the keypad displays READY TO RECEIVE / OK, press the OFF button on the radio key.

User Code	Option No.	Radio Code?
1 (Master)	P201E	Keypad Only
2	P202E	
3	P203E	
4	P204E	
5	P205E	
6	P206E	
7	P207E	
8	P208E	
9	P209E	
10	P210E	
11	P211E	
12	P212E	
13	P213E	
14	P214E	
15	P215E	
16	P216E	
17	P217E	
18	P218E	
19	P219E	

### USER CODE OPTIONS TABLE

See page 24 or 87 for the expanded table.

20	P220E		39	P239E	
21	P221E		40	P240E	
22	P222E		41	P241E	
23	P223E		42	P242E	
24	P224E		43	P243E	
25	P225E		44	P244E	
26	P226E		45	P245E	
27	P227E		46	P246E	
28	P228E		47	P247E	
29	P229E		48	P248E	
30	P230E		49	P249E	
31	P231E		50	P250E	
32	P232E		51	P251E	
33	P233E		52	P252E	
34	P234E		53	P253E	
35	P235E		54	P254E	
36	P236E		55	P255E	
37	P237E		56	P256E	
38	P238E				

# PROGRAMMING

Option No.	Description	Default	
<b>P199E</b>	1E	Send Address	OFF
	2E	Send Time Stamp	OFF
	3E	Send Alarms	OFF
	4E	Send Warnings	OFF
	5E	Send Access Events	OFF
	6E	Zone Seal State	OFF
	7E	Send Test ASCII data	OFF
	8E	[not used]	OFF

## P199E SERIAL OUTPUT OPTIONS

**PROGRAM MODE LEVEL**

Installer

**FACTORY DEFAULT**

Options 1E-7E OFF - Serial data options disabled.

**NOTES**

The RS232 Serial data is output at 9600 baud, 8 data bits, no parity, 1 stop bit

Toggle the current setting for the ENABLING or DISABLING of USER Codes as set by the D8x and D16x V5.6 and later have the option for two way serial data communications via the onboard RS232 SERIAL port. Alarm and system messages can be sent and keypad/status request data can be received. This allows high level interfacing with various external devices/controllers/dataloggers and other.

Messages are in ASCII format. Due to space constraints, the full protocol is not printed in this manual but is available on request.

<b>KPX+</b>	P199E xE to select one option as required
<b>NAVIGATOR</b>	P199E > select one option as required
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P199E xE

Or use **NessXCEL** app

- 1E ON: Send Address. The address is the last digit of Acc No.2 (P73E).
- 2E ON: Send Time Stamp.
- 3E ON: Send Alarms.
- 4E ON: Send Warnings.
- 5E ON: Send Access Events.
- 6E ON: Send Zone Seal State. (D8x/D16x V6 and later.)
- 7E ON: Send test ASCII string. Sends test data periodically, used for testing the serial port (D8x/D16x V6 and later.)

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



## P300E

### PROGRAM MODE LEVEL Installer

Option No. Description

P300E	DEFAULT ALL ACCESS CONTROL OPTIONS
-------	------------------------------------

### DEFAULT ALL ACCESS CONTROL OPTIONS

Enter P300E in Installer program mode to return all access control programs to factory default values.



#### RELATED OPTIONS

P301E 2E Allow arming with a double read  
P301E 3E Allow arming with a single read and pushbutton.

P301E 4E Allow disarming, (single read).

Separate options for arming & disarming allows 'arm only' permission to be granted if required.

P121E 8E, P122E 8E, P123E 8E and P124E 8E to enable readers to operate AUX outputs.

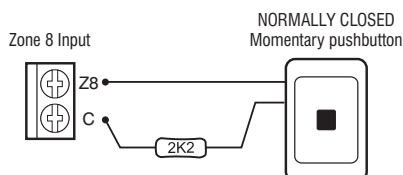
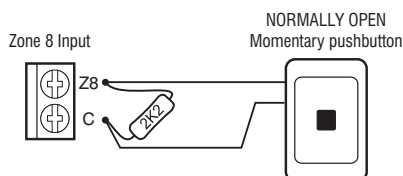
P301E 1E Use Reader Addresses allows up to 3 Ness 101-014 Ultraprox Readers to be used with individual addresses.

P318E - P338E Assign readers to AUX outputs.

**i** If connecting multiple readers, the option to enable multiple readers (P301E 1E) should be turned on *before* programming any access cards. (Enabling P301E 1E erases existing card programming).

**i** If P301E 3E is enabled, a momentary push button can be wired to zone 8 as shown.

For example, this option allows the reader output to operate a door lock during the day by presenting your card. Then at the end of the day press the push button within 5 seconds of presenting the card and the panel will arm.



\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

#### PROGRAMMING ACCESS CARDS

If the panel has 1, 2 or 3 Weigand proximity readers connected up to 55 of the panel's user codes can be programmed as Reader Codes. This allows arming/disarming by access card and operation of AUX outputs to open electric door strikes.

Use the Extra Options programming mode to enable selected user codes to Readers 1, 2 or 3. When a user code is enabled as a Reader Code, its Keypad Code, (if any), is automatically deleted. A user code enabled as a Reader Code cannot also be a Keypad Code or Radio Code.

#### PROGRAMMING SEQUENCE:

- In Installer Program Mode, enter the option number for the user code to be programmed. (P202E–P256E).
- KPX+** Press EXCLUDE E to enter Extra Options mode. (Exclude icon is on).  
**NAVIGATOR** Press Extra Code Options.
- KPX+** and **NAVIGATOR** Press 6E, 7E or 8E to assign the user code to Reader 1, 2 or 3, or all three.
- KPX+** EXCLUDE E to exit Extra Options mode. (The Exclude icon is off).  
**NAVIGATOR** Press to exit the Extra Options screen.
- KPX+** Press 1E (The OK icon will turn ON to indicate ready to accept the access card)  
**NAVIGATOR** Press

If a code is already programmed the OK icon will not turn on and a warning beep will sound. To clear the code, press 0E to clear existing codes then go back to step 5.

- Present a valid access card to the reader.  
If the card or fob is of a valid type, the reader's orange light will turn on.  
If the card is accepted, the keypad OK icon will turn off and 3 beeps will sound.  
If the OK icon stays on and a warning beep sounds, the access card is already assigned to another user code and must be cleared from that code first.

#### PROGRAMMING ACCESS CARDS BY SMS SMS

Access cards can be programmed remotely by SMS as long as a person is on site to present the card to the reader for programming.

Example, to program an access card as user 55.

The SMS string below enters program mode, selects user 55, assigns the code to readers 1,2 and 3, deletes any existing code, selects learn mode, then the panel will wait for 30 seconds for a card to be enrolled. At this point you should present the card to a reader. Once the card is successfully programmed you will hear 3 beeps from the keypad. The panel will exit program mode on expiry of the 30 second learn window.

<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E P255E XE6E7E8EXE 0E 1E
-------------	---

When the keypad displays READY TO RECEIVE / OK, present the card to a reader.

Option No.	Description	Default	
<b>P301E</b>	1E	Use reader addresses	OFF
	2E	Arm with double read	ON
	3E	Arm with single read and pushbutton	OFF
	4E	Disarm with access card	ON
	5E	REX Input 1 (Zone 5 input)	OFF
	6E	REX Input 2 (Zone 6 input)	OFF
	7E	REX Input 3 (Zone 7 input)	OFF
	8E	Strobe Flash on Arm/Disarm by Reader	ON

<b>P301E</b>	<b>ACCESS CONTROL OPTIONS 1E - 8E</b>						
<b>PROGRAM MODE LEVEL</b> Installer mode	Enable or disable P301E 1E to 8E as required. Only one option can be on. <table border="1" style="margin-top: 10px;"> <tr> <td style="background-color: #ff00ff; color: white;">KPX+</td> <td>P301E 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #00ff00; color: white;">NAVIGATOR</td> <td>P301E &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #00bfff; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P301E [1E -8E] as required</td> </tr> </table> Or use <a href="#">NessXCEL</a> app	KPX+	P301E 1E - 8E to enable/disable the option as required	NAVIGATOR	P301E > enable/disable 1E - 8E as required	SMS*	P[MasterCode]E P[InstallerCode]E P301E [1E -8E] as required
KPX+	P301E 1E - 8E to enable/disable the option as required						
NAVIGATOR	P301E > enable/disable 1E - 8E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P301E [1E -8E] as required						
<b>P301E 1E</b>	<b>USE READER ADDRESSES</b>						
<b>FACTORY DEFAULT</b> OFF (Use one reader).	If ON then all readers connected to the D8x/D16x must have set addresses of 1, 2 or 3. The data is then sent in an extended format that includes the reader address. (Use up to three Ness prox readers). The reader's address is determined by the connection of the violet wire. See the wiring diagram on page 86).						
<b>NOTES</b> When using multiple readers, this option must be enabled before programming any access cards, (to avoid losing card programming when the option is enabled).	If this option is off, one standard Weigand 26bit reader can be used.						
<b>P301E 2E</b>	<b>ARM WITH DOUBLE READ</b>						
<b>FACTORY DEFAULT</b> ON	When this option is enabled the panel will arm if the same valid access card is presented to a reader twice within 5 seconds.						
<b>P301E 3E</b>	<b>ARM WITH SINGLE READ AND PUSHBUTTON</b>						
<b>FACTORY DEFAULT</b> OFF	When this option is enabled the panel will arm if a valid access card is presented to a reader once and zone 8 is unsealed momentarily within 5 seconds.						
<b>NOTES</b> <ul style="list-style-type: none"> <li>Connect a pushbutton to Zone 8.</li> <li>This option automatically disables zone 8 as an alarm zone</li> </ul>	This option can be used to prevent accidental arming or disarming by access card.						
<b>P301E 4E</b>	<b>DISARM WITH ACCESS CARD</b>						
<b>FACTORY DEFAULT</b> ON	When this option is enabled a valid access card will disarm the panel.						
<b>P301E 5E-7E</b>	<b>REQUEST TO EXIT (REX) INPUTS</b>						
<b>FACTORY DEFAULT</b> OFF	These options convert zones 5, 6 and 7 into Request To Exit (REX) inputs for access control, allowing for push button door exit. Connect a N/C or N/O pushbutton to either open circuit or short circuit the zone resistor.						
<b>NOTES</b> <ul style="list-style-type: none"> <li>When one of these options is enabled, that zone is automatically disabled as an alarm zone.</li> <li>The zone must reseal before another Request To Exit can occur. i.e, If the zone is left unsealed, the door will not be left unlocked.</li> </ul>	The REX zones can also be programmed as Long Response Zones (P37E, P38E) to prevent accidental door opening, the REX button must be pressed and held for 1sec or 3sec, as programmed.						
<b>RELATED OPTIONS</b> P37E, P38E Long Response Zones P318E, P328E, P338E, P121E-P124E Programming of Readers to Aux outputs.	P301E 5E enables Zone 5 to trigger the AUX outputs assigned to Reader1. P301E 6E enables Zone 6 to trigger the AUX outputs assigned to Reader2. P301E 7E enables Zone 7 to trigger the AUX outputs assigned to Reader3.						
<b>P301E 8E</b>	<b>STROBE FLASH ON ARM/DISARM BY READER</b>						
Factory Default ON	This option enables strobe flash when arming and disarming by Reader.						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.



Option No.	Description	ZONES 1–8 (D8 & D16)								ZONES 9–16 (D16)							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P303E	DOTL ZONES																

P303E	DOOR OPEN TOO LONG (DOTL) ZONES						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> All OFF: No DOTL zones.</p> <p><b>NOTES</b> Zones can be assigned as DOTL zones in addition to normal alarm functions. Therefore, DOTL zones can operate as alarm zones when armed and DOTL zones when disarmed. (Day Zone programming still applies).</p> <p><b>RELATED OPTIONS</b> P121E 7E DOTL Alarms to AUX1 P122E 7E DOTL Alarms to AUX1 P305E Misc DOTL options P304E DOTL Time</p> <p><b>KPX+ PRO TIP</b> When selecting zones, 0 E selects all, MEMORY E deselects all.</p>	<p>This selects the zones that will generate a DOTL alert if the zone is unsealed for longer than the time set by P304E.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P303E [Zone Number] E to enable/disable zones</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P303E &gt; Select zones</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P303E [Zone Number] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P303E [Zone Number] E to enable/disable zones	NAVIGATOR	P303E > Select zones	SMS*	P[MasterCode]E P[InstallerCode]E P303E [Zone Number] E
KPX+	P303E [Zone Number] E to enable/disable zones						
NAVIGATOR	P303E > Select zones						
SMS*	P[MasterCode]E P[InstallerCode]E P303E [Zone Number] E						

Option No.	Description	Default	Note
P304E	DOTL TIMER	20	01–99 seconds

P304E	DOTL TIMER						
<p><b>PROGRAM MODE LEVEL</b> Installer</p> <p><b>FACTORY DEFAULT</b> 20 seconds</p> <p><b>RELATED OPTIONS</b> P303E DOTL Zones P121E 7E DOTL Alarms to AUX1 P122E 7E DOTL Alarms to AUX1 P305E Misc DOTL options</p>	<p>Sets the delay time in seconds before a DOTL zone generates a DOTL alert. Enter a value between 01 and 99.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #e91e63; color: white;">KPX+</td> <td>P304E [New Value] E</td> </tr> <tr> <td style="background-color: #4caf50; color: white;">NAVIGATOR</td> <td>P304E &gt; [New Value] E</td> </tr> <tr> <td style="background-color: #00bcd4; color: white;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P304E [NewValue] E</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	KPX+	P304E [New Value] E	NAVIGATOR	P304E > [New Value] E	SMS*	P[MasterCode]E P[InstallerCode]E P304E [NewValue] E
KPX+	P304E [New Value] E						
NAVIGATOR	P304E > [New Value] E						
SMS*	P[MasterCode]E P[InstallerCode]E P304E [NewValue] E						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	Default	
<b>P305E</b>	1E	DOTL output LATCHES	OFF
	2E	DOTL outputs to Output Expander	OFF
	3E	DOTL Timer in Minutes	OFF
	4E	DOTL Timer in Hours	OFF
	5E	DOTL zone flashes on keypad	OFF
	6E	[not used]	OFF
	7E	[not used]	OFF
	8E	[not used]	OFF

<b>P305E</b>	<b>ACCESS CONTROL OPTIONS 1E - 5E</b>						
<b>PROGRAM MODE LEVEL</b> Installer mode <b>FACTORY DEFAULT</b> All OFF	Enable or disable P305E 1E to 5E as required. <table border="1"> <tr> <td style="background-color: #ff00ff;">KPX+</td> <td>P305E 1E - 5E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #00ff00;">NAVIGATOR</td> <td>P305E &gt; enable/disable 1E - 5E as required</td> </tr> <tr> <td style="background-color: #00bfff;">SMS*</td> <td>P[MasterCode]E P[InstallerCode]E P305E [1E -5E] as required</td> </tr> </table> Or use <b>NessXCEL</b> app	KPX+	P305E 1E - 5E to enable/disable the option as required	NAVIGATOR	P305E > enable/disable 1E - 5E as required	SMS*	P[MasterCode]E P[InstallerCode]E P305E [1E -5E] as required
KPX+	P305E 1E - 5E to enable/disable the option as required						
NAVIGATOR	P305E > enable/disable 1E - 5E as required						
SMS*	P[MasterCode]E P[InstallerCode]E P305E [1E -5E] as required						
<b>P305E 1E</b>	<b>DOTL OUTPUT LATCHES</b>						
<b>RELATED OPTIONS</b> P121E 7E DOTL Alerts to Aux1. P122E 7E DOTL Alerts to Aux2.	With this option on, DOTL alerts will either follow the sealed/unsealed state of DOTL zones or latch the Aux output/s which have been programmed for DOTL alerts.						
<b>P305E 2E</b>	<b>DOTL ALERTS TO OUTPUT EXPANDER</b>						
<b>RELATED OPTIONS</b> P117E 1E Enable Output Expander	With this option on, DOTL alerts will be sent to the optional Output Expander on the same output number as the DOTL zone number. P305E 1E settings apply.						
<b>P305E 3E</b>	<b>DOTL TIMER IN MINUTES</b>						
<b>RELATED OPTIONS</b> P304E DOTL Timer	With this option ON, the P304E timer counts in minutes rather than seconds to give the option for longer DOTL times.						
<b>P305E 4E</b>	<b>DOTL TIMER IN HOURS</b>						
<b>RELATED OPTIONS</b> P304E DOTL Timer	With this option ON, the P304E timer counts in hours rather than seconds to give the option for extra long DOTL times.						
<b>P305E 5E</b>	<b>DOTL ALERTS TO KEYPAD</b>						
	With this option on, DOTL alerts will SLOWLY flash the corresponding zone light on the keypad. P305E 1E settings apply.						

Option No.	Description	Default	Note
P319E	ULTRAPROX READER 1 OUTPUT TIME	5	01-24 seconds
P329E	ULTRAPROX READER 2 OUTPUT TIME	5	01-24 seconds
P339E	ULTRAPROX READER 3 OUTPUT TIME	5	01-24 seconds

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

Option No.	Description	Default	
<b>P318E</b>	1E	Ultraprox Reader1 to AUX1	OFF
	2E	Ultraprox Reader1 to AUX2	OFF
	3E	Ultraprox Reader1 to AUX3	OFF
	4E	Ultraprox Reader1 to AUX4	OFF
	5E	Ultraprox Reader1 to AUX5	OFF
	6E	Ultraprox Reader1 to AUX6	OFF
	7E	Ultraprox Reader1 to AUX7	OFF
	8E	Ultraprox Reader1 to AUX8	OFF
<b>P328E</b>	1E	Ultraprox Reader2 to AUX1	OFF
	2E	Ultraprox Reader2 to AUX2	OFF
	3E	Ultraprox Reader2 to AUX3	OFF
	4E	Ultraprox Reader2 to AUX4	OFF
	5E	Ultraprox Reader2 to AUX5	OFF
	6E	Ultraprox Reader2 to AUX6	OFF
	7E	Ultraprox Reader2 to AUX7	OFF
	8E	Ultraprox Reader2 to AUX8	OFF
<b>P338E</b>	1E	Ultraprox Reader3 to AUX1	OFF
	2E	Ultraprox Reader3 to AUX2	OFF
	3E	Ultraprox Reader3 to AUX3	OFF
	4E	Ultraprox Reader3 to AUX4	OFF
	5E	Ultraprox Reader3 to AUX5	OFF
	6E	Ultraprox Reader3 to AUX6	OFF
	7E	Ultraprox Reader3 to AUX7	OFF
	8E	Ultraprox Reader3 to AUX8	OFF

<b>P318E, P328E, P338E</b>	<b>READERS 1-3 TO AUX OUTPUTS 1-8</b>						
<p><b>PROGRAM MODE LEVEL</b> Installer mode</p> <p><b>FACTORY DEFAULT</b> All OFF</p>	<p>Enable or disable P318E, P328E, P338E, 1E to 8E as required.</p> <p>These options give the flexibility of assigning any access reader to any Aux output for operating door strikes, magnetic locks, etc. Readers can be assigned to multiple outputs. Always use an external relay board (101-283) on each Aux output on the output expander/s if connecting devices which draw more than 100mA.</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #ff00ff; color: white;"><b>KPX+</b></td> <td>PxxxE 1E - 8E to enable/disable the option as required</td> </tr> <tr> <td style="background-color: #00ff00; color: white;"><b>NAVIGATOR</b></td> <td>PxxxE &gt; enable/disable 1E - 8E as required</td> </tr> <tr> <td style="background-color: #0000ff; color: white;"><b>SMS*</b></td> <td>P[MasterCode]E P[InstallerCode]E PxxxE [1E -8E] as required</td> </tr> </table> <p>Or use <b>NessXCEL</b> app</p>	<b>KPX+</b>	PxxxE 1E - 8E to enable/disable the option as required	<b>NAVIGATOR</b>	PxxxE > enable/disable 1E - 8E as required	<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E PxxxE [1E -8E] as required
<b>KPX+</b>	PxxxE 1E - 8E to enable/disable the option as required						
<b>NAVIGATOR</b>	PxxxE > enable/disable 1E - 8E as required						
<b>SMS*</b>	P[MasterCode]E P[InstallerCode]E PxxxE [1E -8E] as required						
<b>P318E 1E-8E</b>	<b>READER 1 TO AUX OUTPUTS</b>						
<p><b>RELATED OPTIONS</b> P121E 8E, P122E 8E, P123E 8E, P124E 8E, P151E 7E, P152E 7E, P153E 7E, P154E 7E, P319E, P329E, P339E</p>	<p>Enable options 1-8 as required to assign Reader 1 to Aux outputs as per the table above.</p>						
<b>P328E 1E-8E</b>	<b>READER 2 TO AUX OUTPUTS</b>						
<p><b>RELATED OPTIONS</b> P121E 8E, P122E 8E, P123E 8E, P124E 8E, P151E 7E, P152E 7E, P153E 7E, P154E 7E, P319E, P329E, P339E</p>	<p>Enable options 1-8 as required to assign Reader 2 to Aux outputs as per the table above.</p>						
<b>P338E 1E-8E</b>	<b>READER 3 TO AUX OUTPUTS</b>						
<p><b>RELATED OPTIONS</b> P121E 8E, P122E 8E, P123E 8E, P124E 8E, P151E 7E, P152E 7E, P153E 7E, P154E 7E, P319E, P329E, P339E</p>	<p>Enable options 1-8 as required to assign Reader 3 to Aux outputs as per the table above.</p>						

\* SMS programming shows the full SMS string to send. KPX+ and NAVIGATOR programming assumes the panel is already in program mode.

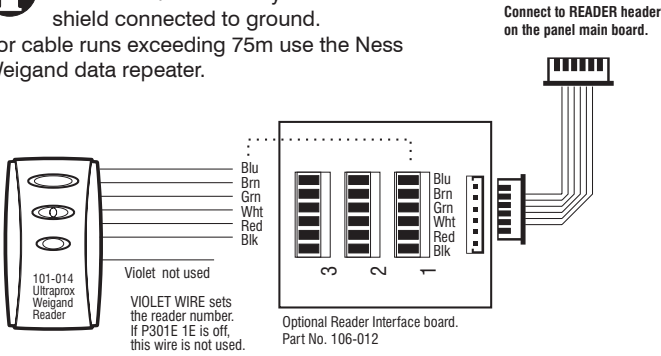
## WIRING A SINGLE READER

P301E 1E is OFF (Reader addresses not used)

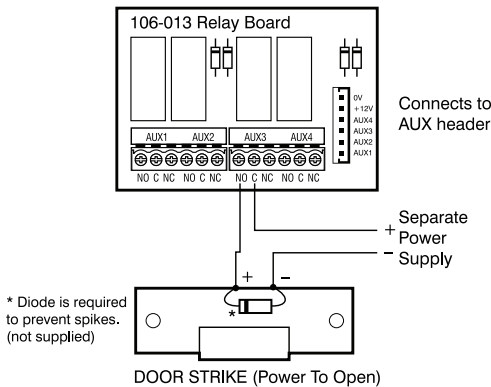
Connect only 1 reader.

In this mode the panel is compatible with the 101-091 Ness IDTeck Fingerprint Reader or the 101-014 Ness Ultraprox Weigand Reader.

**i** Recommended cable is twisted 3 pair shielded cable with only one end of the shield connected to ground. For cable runs exceeding 75m use the Ness Weigand data repeater.



## WIRING A DOOR STRIKE

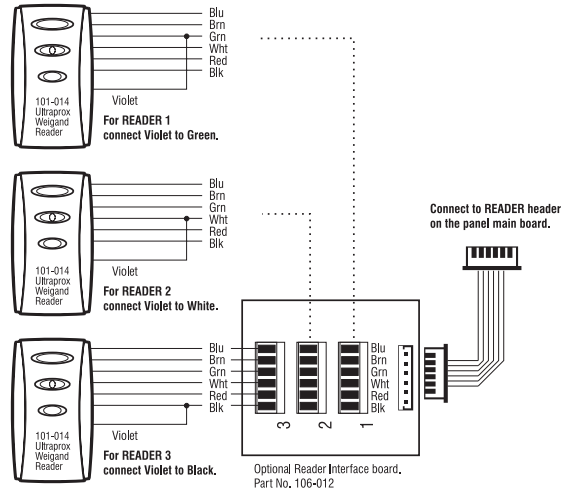


## WIRING MULTIPLE READERS

P301E 1E is ON (Use Reader addresses)

When multiple readers are used, the panel needs to identify the individual readers.

The 101-014 Ness Ultraprox Weigand Readers can be addressed as Reader 1, 2 or 3 by connecting the Violet wire to an appropriate terminal.



If using multiple Weigand readers, they must be either ALL addressable or ALL non-addressable.

That is, use either three Ness 101-014 addressable Weigand readers or three generic Weigand readers.

## REQUEST TO EXIT (REX) USING A KEYPAD CODE

Codes selected for Code Only Arming can be used as REX codes for access control functions. That is, the code can operate an output instead of arming/disarming the panel.

There are two conditions needed to make the code operate as a REX code - It is assigned to CODE ONLY ARM and it is not assigned to either Area 1 or Area 2.

The first digit of the user code determines which AUX output is operated by the REX code. That is, a REX code in the format 1xxx operates AUX1, 2xxx operates AUX2 and 3xxx operates AUX3.

Notes:

1. Reader 1 can also use codes starting with 4-9 if only one exit point is used.
2. Set P318E, P328E, P338E options to select appropriate AUX outputs.
3. Set corresponding P121E, P122E, P123E, P124E options to 8E.

### Setup Example:

- User Codes 1555, 2555, 3555 are programmed to be Code Only Arm and are not assigned to Area 1 or Area 2.
- P318E 1E, P328E 2E, P338E 3E are programmed to set reader output to selected Aux output.
- P121E 8E, P122E 8E, P123E 8E are programmed to set AUX outputs to reader.

### Operation Example:

- Code 1555 activates door associated with AUX1 (READER 1).
- Code 2555 activates door associated with AUX2 (READER 2).
- Code 3555 activates door associated with AUX3 (READER 3).



# PROGRAMMING OPTIONS SUMMARY

## USER CODE OPTIONS TABLE

**KPX+** EXCLUDE+E toggles Extra Options mode. **NAVIGATOR** Press Extra Code Options.  
(Installer Program mode only)

USER CODE <b>U</b>	OPTION NO.	KEYPAD PIN	PAGE 24				Page 79	Page 81			Page 74-76
			1E AREA 1 Code	2E AREA 2 Code	3E ARM ONLY	4E "CODE ONLY" ARM (REX CODE)	5E RADIO Code	6E Reader 1 Code	7E Reader 2 Code	8E Reader 3 Code	9E Enable for AutoTime
1 (Master)	P201E	123	ON	ON							
2	P202E		ON								
3	P203E		ON								
4	P204E		ON								
5	P205E		ON								
6	P206E		ON								
7	P207E		ON								
8	P208E		ON								
9	P209E		ON								
10	P210E		ON								
11	P211E		ON								
12	P212E		ON								
13	P213E		ON								
14	P214E		ON								
15	P215E		ON								
16	P216E		ON								
17	P217E		ON								
18	P218E		ON								
19	P219E		ON								
20	P220E		ON								
21	P221E		ON								
22	P222E		ON								
23	P223E		ON								
24	P224E		ON								
25	P225E		ON								
26	P226E		ON								
27	P227E		ON								
28	P228E		ON								
29	P229E		ON								
30	P230E		ON								
31	P231E		ON								
32	P232E		ON								
33	P233E		ON								
34	P234E		ON								
35	P235E		ON								
36	P236E		ON								
37	P237E		ON								
38	P238E		ON								
39	P239E		ON								
40	P240E		ON								
41	P241E		ON								
42	P242E		ON								
43	P243E		ON								
44	P244E		ON								
45	P245E		ON								
46	P246E		ON								
47	P247E		ON								
48	P248E		ON								
49	P249E		ON								
50	P250E		ON								
51	P251E		ON								
52	P252E		ON								
53	P253E		ON								
54	P254E		ON								
55	P255E		ON								
56	P256E		ON								

OPTION	DESCRIPTION	DEFAULT	PAGE	
<b>P26E</b> <b>U</b>	ENTRY DELAY Time 1	20 sec	25	
<b>P27E</b> <b>U</b>	Entry Delay Time 2	6=60 sec		
<b>P28E</b> <b>U</b>	EXIT DELAY Time	60 sec		
<b>P29E</b>	SIREN RESET Time	5 min		
<b>P30E</b>	Normal Zone Sensitivity	all zones	26	
<b>P31E-36E</b>	Vibration Sensitivity, High-Low	none		
<b>P37E</b>	Long Response Zones - 1 second	none		
<b>P38E</b>	Long Response Zones - 3 seconds	none		
<b>P39E</b>	Double Trigger zones	none	27	
<b>P40E</b>	Instant zones	zones 3+		
<b>P41E</b>	ENTRY DELAY 1 zones	Zone 1	28	
<b>P42E</b>	HANDOVER zones	Zone 2		
<b>P43E</b>	Entry Delay 2 zones	none		
<b>P44E</b>	Lockout zones (RESET output)	All zones		
<b>P45E</b>	AREA 1 zones	All zones		
<b>P46E</b>	AREA 2 zones	none		
<b>P51E</b>	HOME MODE zones	none	30	
* See page 29 for information on Area operation, Home mode & Temporary Day Zones				
<b>P52E</b>	24hr zones	none	30	
<b>P53E</b>	Day Mode zones	none		
<b>P54E</b>	RESET output zones	All zones	31	
<b>P55E</b>	STROBE zones	All zones		
<b>P56E</b>	Keypad Sonalert zones	All zones		
<b>P57E</b>	SIREN zones	All zones		
<b>P58E</b>	Aux1 / Aux3 zones	none	32	
<b>P59E</b>	Aux2 / Aux4 zones	none		
<b>P60E</b>	1E	Entry Beeps	ON	33-34
	2E	Keyswitch Home Monitor/Disarm	OFF	
	3E	Keyswitch Arm/Disarm	OFF	
	4E	Tamper Siren lockout	ON	
	5E	Duress to RESET output	OFF	
	6E	Auto Exclude zones	ON	
	7E	Auto keypad display off	OFF	
	8E	Delayed Aux3, Aux4 outputs	OFF	
<b>P61E</b>	1E	Tamper to RESET output	ON	35
	2E	Tamper to STROBE output	ON	
	3E	Tamper to Keypad Sonalert	ON	
	4E	Tamper to SIREN output	ON	
	5E	Keypad Panic to RESET output	ON	
	6E	Keypad Panic to STROBE output	ON	
	7E	Keypad Panic to Sonalert	ON	
	8E	Keypad Panic to SIREN output	ON	



Options marked "u" can be programmed in User Program Mode

All options can be programmed in Installer Program Mode



Options relating to SMS reporting are marked

OPTION	DESCRIPTION	DEFAULT	PAGE	
<b>P62E</b>	1E	Shortcut Memory display	ON	36
	2E	Shortcut Zone Exclude	ON	
	3E	Shortcut Home Mode	ON	
	4E	Shortcut Keypad Panic	OFF	
	5E	Shortcut Area1 Arming	ON	
	6E	Shortcut Area2 Arming	OFF	
	7E	Brief warning on Auto Exclude	ON	
	8E	Exit Time x10	OFF	
<b>P63E</b>	1E	Home Mode alarms to RESET output	ON	37
	2E	Home Mode alarms to STROBE	ON	
	3E	Home Mode alarms to SONALERT	ON	
	4E	Home Mode alarms to SIREN	OFF	
	5E	Day Mode to RESET output	OFF	
	6E	Day Mode to STROBE	OFF	
	7E	Day Mode KP SONALERT (Chime KPX)	ON	
	8E	Day Mode to SIREN	OFF	
<b>P64E</b>	1E	Brief Home Mode Alarm	OFF	37-38
	2E	Brief Day Alarm	OFF	
	3E	Home zones Entry Delay2	ON	
	4E	Radio Key SIREN CHIRPS	OFF	
	5E	[not used]	OFF	
	6E	Strobe Flash on Home arm by radio	OFF	
	7E	[not used]	OFF	
	8E	[not used]	OFF	
<b>P65E</b>	Supervised zones	NONE	39	
<b>P66E</b>	1E	Zone Supervision alarm to RESET o/p	OFF	40-41
	2E	Zone Supervision alarm to STROBE	OFF	
	3E	Zone Supervision alarm to SONALERT	OFF	
	4E	Zone Supervision alarm to SIREN	OFF	
	5E	Enable WIRED ZONE supervision	OFF	
	6E	[not used]	OFF	
	7E	Zone Supervision speedup x 6	OFF	
	8E	Zone Supervision speedup x10	OFF	
<b>P67E</b>	Zone Supervision Time	24 (hours)	41	
<b>P68E</b>	1E	Double Press Radio Panic	OFF	42-43
	2E	Auto Re-Arm	OFF	
	3E	Long Radio Message	ON	
	4E	"OK/READY" Display	OFF	
	5E	Radio Arming "unsealed" warning	OFF	
	6E	24hr Zone Fire Siren sound	OFF	
	7E	Single Shot strobe on Arm by R/Key	OFF	
	8E	Quiet chirps on radio Arm/Disarm	OFF	
<b>P69E</b>	1E	Flash strobe on medical alarm	OFF	44-45
	2E	[not used]	OFF	
	3E	Quiet Home Mode Siren	OFF	
	4E	6 beeps on Arming	OFF	
	5E	Home arm by radio key ON/OFF	OFF	
	6E	Disable Mains Fail Alarm	OFF	
	7E	Exit BEEPS - Full Arm	OFF	
	8E	Exit BEEPS - Home Mode	OFF	

OPTION	DESCRIPTION	DEFAULT	PAGE
<b>P70E</b>	Telephone No.1 for CID reporting <b>See P170E</b>	NONE	46
<b>P71E</b>	Telephone No.2 for CID reporting <b>See P171E</b>	NONE	
<b>P72E</b>	Account No. 1 for Central Station rpt	0000	46
<b>P73E</b>	Account No. 2 for Central Station rpt	0000	
The following options relate to reporting to central station by CID. See P190E, P191E, P192E, P193E for related SMS reporting options.			
<b>P74E</b>	REPORT ZONE ALARMS	All zones	49
<b>P75E</b> 1E	Report DURESS alarms	OFF	50
D8 & D16 2E	Report MEDICAL alarms	OFF	
3E	Report keypad & Keyswitch PANIC	ON	
4E	Report FIRE alarms	OFF	
5E	Report PANEL TAMPER alarms	ON	
6E	Report EXTERNAL TAMPER alarms	ON	
7E	Report KEYPAD TAMPER alarms	ON	
8E	Report EXIT FROM INSTALLER mode	OFF	
D8, P92E 1E D16, P75E 9E	Report RADIO TAMPER	ON	
D8, P92E 2E D16, P75E 10E	Report RADIO PANIC by User ID	ON	
D8, P92E 3E D16, P75E 11E	Report RADIO Low Battery by device	OFF	
D8, P92E 4E D16, P75E 12E	Report ZONE SUPERVISION FAIL	OFF	
D8, P92E 5E D16, P75E 13E	Report PANEL LOW BATTERY	ON	
D8, P92E 6E D16, P75E 14E	Report MAINS FAIL	ON	
<b>P76E</b>	Report Zone Restorals	All on	49
<b>P77E</b>	Report Misc. Restorals	All on	50
<b>P78E</b>	Report Multiple Zone alarms	NONE	49
<b>P79E</b>	Account No.2 zones	NONE	49
<b>P80E</b>	Tel No. 3 for Test Calls <b>See P172E</b>	NONE	
<b>P82E</b> 1E	Send RESTORAL report immediately	OFF	50
2E	Send RESTORAL after siren time	OFF	
3E	Send RESTORAL after Disarm & seal	OFF	
4E	Send RESTORAL after Disarm always	ON	
<b>P83E</b>	TEST CALL Interval	84 (168hrs)	51
<b>P84E</b>	Time before NEXT TEST CALL	6 (12hrs)	
<b>P86E</b> 1E	Disable Dialler	OFF	52
2E	Enable reporting by CID	ON	
<b>P87E*</b> 1E	Split dial Primary/Secondary numbers	OFF	53
	[not used]	OFF	
<b>SMS</b> 3E	Enable reporting by SMS	ON	
4E	4 Dialling attempts	ON	

OPTION	DESCRIPTION	DEFAULT	PAGE
<b>P88E</b> 1E	Send AREA 1 Open/Close by CID	OFF	54-55
2E	Send AREA 2 Open/Close by CID	OFF	
	<b>See P194E for Open/Close by SMS</b>		
3E	Siren Chirp on Kiss-off	OFF	
4E	Flash Strobe on Kiss-off	OFF	
5E	Forced Opening report	ON	
6E	Delayed Closing Reports	OFF	
7E	Manual Exclude Reports	ON	
8E	Auto Exclude Reports	ON	
<b>P89E</b> 1E	ENABLE TEST CALLS	ON	56
2E	Mains Report Delay (1 hour)	ON	
3E	[not used]	OFF	
4E	Swinger shutdown	ON	
5E	Line Fault Monitor	OFF	
The following options relate to reporting to central station by CID. See P191E, P193E for related SMS reporting options.			
<b>P92E</b>	Report Misc. Alarms 9-14 (D8 only)	1,2,5,6 on	50
<b>P93E</b>	Report Misc. Restorals 9-14 (D8 only)	All on	
<b>P94E</b>	"No Memory Warning" zones	none	57
<b>P95E</b>	CLEAR RADIO DEVICES		58
<b>P96E</b>	CLEAR MEMORY		
<b>P97E</b>	CLEAR PANEL OPTIONS (restore Factory Defaults)		
<b>P98E</b>	CLEAR User codes, Radio Keys, Access Cards		
<b>P99E</b>	Program the INSTALLER CODE	000000	58
<b>P101E-P116E</b>	PROGRAM RADIO DEVICES 1-8 or 1-16	none	78
<b>P117E</b> 1E	Enable Output Expander	OFF	59-60
2E	Expander Output Format A, B	OFF	
3E	Day Zone Follower	OFF	
4E	Output Exclude	OFF	
5E	Expander Output Format C	OFF	
6E	User Code Toggle or Pulse	OFF	
<b>P118E</b>	Output Expander zones	none	
<b>P119E</b>	Output Expander alarm zones	none	
<b>P120E</b> 1E	Latched keyswitch input	OFF	61-62
2E	Home arm chirps by radio key	OFF	
3E	Radio Key AUX arms Home mode	OFF	
4E	Keyswitch DISARM ONLY	OFF	
5E	Keyswitch ARM ONLY	OFF	
6E	Smart Beeps (Brief Home & Day modes)	OFF	
7E	Entry Delay Extender	OFF	
8E	Area2 Disarm by Keyswitch Allowed	OFF	
<b>P121E</b> 1E	Zone alarms to AUX1 (P58E selects zones)	ON	63
2E	Zone Supervision alarms to AUX1	OFF	
3E	Radio key Panic TOGGLE	OFF	
4E	Radio key Panic PULSE	OFF	
7E	Door Open Too Long (DOTL) alarm to AUX1	OFF	
8E	Reader [x] output to AUX1	OFF	



OPTION	DESCRIPTION	DEFAULT	PAGE	
<b>P122E</b>	1E	Zone alarms to AUX2 (P59E selects zones)	ON	65
	2E	Zone Supervision alarms to AUX2	OFF	
	3E	Radio key Aux Button TOGGLE	OFF	
	4E	Radio key Aux Button PULSE	OFF	
	5E	[not used]	OFF	
	6E	[not used]	OFF	
	7E	Door Open Too Long (DOTL) alarm to AUX2	OFF	
	8E	Reader [x] output to AUX2	OFF	
<b>P123E</b>	1E	Zone Alarms to AUX3	OFF	67
	3E	Enable AUX3 for AutoTime	OFF	
	4E	Radio Key Panic Pulses AUX3	OFF	
	5E	[not used]	OFF	
	6E	[not used]	OFF	
	7E	[not used]	OFF	
	8E	Reader [x] output to AUX3	OFF	
	<b>P124E</b>	1E	Zone Alarms to AUX4	
2E		Enable Extension Sonalert	OFF	
3E		Enable AUX4 for AutoTime	OFF	
4E		Radio Key Panic Pulses AUX4	OFF	
5E		Enable AUX4 as Fail To Communicate o/p	OFF	
6E		[not used]	OFF	
7E		[not used]	OFF	
8E		Reader [x] output to AUX4	OFF	
<b>P125E</b>	Enable hardwired zones	All on	72	
<b>P126E</b>	1E	Enable Double key PANIC	ON	73
	2E	Enable Double key FIRE	OFF	
	3E	Enable Dbl key MEDICAL & Nav MEDICAL	OFF	
	4E	Enable Entry Chime, DAY Mode	OFF	
	5E	Enable Entry Chime, HOME Mode	OFF	
	6E	[not used]	OFF	
	7E	[not used]	OFF	
	8E	Disable One Digit At A Time display	ON	
<b>P129E</b>	1E	0k EOL resistors	OFF	73
	2E	1k EOL resistors	OFF	
	3E	1.5k EOL resistors	OFF	
	4E	2.2k EOL resistors	ON	
	5E	3.3k EOL resistors	OFF	
	6E	3.9k EOL resistors	OFF	
	7E	4.7k EOL resistors	OFF	
	8E	5.6k EOL resistors	OFF	
	9E	6.8k EOL resistors	OFF	
	10E	8.2k EOL resistors	OFF	
	11E	10k EOL resistors	OFF	
	12E	12k EOL resistors	OFF	
	13E	22k EOL resistors	OFF	
<b>P141E</b>	1E	Area 1 Armed to AUX1	OFF	64
	2E	Area 2 Armed to AUX1	OFF	
	3E	Home Armed to AUX1	OFF	
	4E	Keypad toggle AUX1	OFF	
	5E	[not used]	OFF	
	6E	[not used]	OFF	
	7E	[not used]	OFF	
	8E	Pulse AUX1	OFF	

OPTION	DESCRIPTION	DEFAULT	PAGE	
<b>P142E</b>	1E	Area 1 Armed to AUX2	OFF	66
	2E	Area 2 Armed to AUX2	OFF	
	3E	Home Armed to AUX2	OFF	
	4E	Keypad toggle AUX2	OFF	
	5E	[not used]	OFF	
	6E	[not used]	OFF	
	7E	[not used]	OFF	
	8E	Pulse AUX2	OFF	
<b>P143E</b>	1E	Area 1 Armed to AUX3	OFF	68
	2E	Area 2 Armed to AUX3	OFF	
	3E	Home Armed to AUX3	OFF	
	4E	Keypad toggle AUX3	OFF	
	5E	[not used]	OFF	
	6E	[not used]	OFF	
	7E	[not used]	OFF	
	8E	Pulse AUX3	OFF	
<b>P144E</b>	1E	Area 1 Armed to AUX4	OFF	70
	2E	Area 2 Armed to AUX4	OFF	
	3E	Home Armed to AUX4	OFF	
	4E	Keypad toggle AUX4	OFF	
	5E	[not used]	OFF	
	6E	[not used]	OFF	
	7E	[not used]	OFF	
	8E	Pulse AUX4	OFF	
<b>P145E</b>	AUX1 Timer (1-99 sec)	20 sec	64	
<b>P146E</b>	AUX2 Timer (1-99 sec)	20 sec	66	
<b>P147E</b>	AUX3 Timer (1-99 sec)	20 sec	68	
<b>P148E</b>	AUX4 Timer (1-99 sec)	20 sec	70	
<b>P151E</b>	4E	Keypad toggle AUX5	OFF	71
	5E	[not used]	OFF	
	7E	Reader Output to AUX5	OFF	
	8E	PULSE AUX5	OFF	
<b>P152E</b>	4E	Keypad toggle AUX6	OFF	71
	5E	[not used]	OFF	
	7E	Reader Output to AUX6	OFF	
<b>P153E</b>	4E	Keypad toggle AUX7	OFF	71
	5E	[not used]	OFF	
	7E	Reader Output to AUX7	OFF	
	8E	PULSE AUX7	OFF	
<b>P154E</b>	4E	Keypad toggle AUX8	OFF	71
	5E	[not used]	OFF	
	7E	Reader Output to AUX8	OFF	
	8E	PULSE AUX8	OFF	
<b>P155E</b>	AUX5 timer	20 sec	71	
<b>P156E</b>	AUX6 timer	20 sec		
<b>P157E</b>	AUX7 timer	20 sec		
<b>P158E</b>	AUX8 timer	20 sec		



## PROGRAMMING OPTIONS SUMMARY

PAGE 5 of 6

OPTION	DESCRIPTION	DEFAULT	PAGE
P160E	Alarm Siren Volume	99	72
P161E	Fire Siren Volume	99	
P162E	Chirp Siren Volume	16	
P170E	Phone number 1 For CID Reporting	none	47
P171E	Phone number 2 For CID Reporting	none	
P172E	Phone number for CID Test Calls	none	
All SMS Phone numbers are user programmable.			
P180E	<b>SMS</b> <b>U</b> Ph Number 1 for all SMS reports	none	48
P181E	<b>SMS</b> <b>U</b> Ph Number 2 for all SMS reports	none	
P182E	<b>SMS</b> <b>U</b> Ph Number 3 for all SMS reports	none	
P183E	<b>SMS</b> <b>U</b> Ph Number 4 for all SMS reports	none	
P184E	<b>SMS</b> <b>U</b> Ph Number 5 for all SMS reports	none	
P185E	<b>SMS</b> <b>U</b> Ph Number 6 for all SMS reports	none	
P186E	<b>SMS</b> <b>U</b> Ph Number 7 for all SMS reports	none	
P187E	<b>SMS</b> <b>U</b> Ph Number 8 for all SMS reports	none	
P188E	<b>SMS</b> <b>U</b> Ph Number 9 for all SMS reports	none	
P189E	<b>SMS</b> <b>U</b> Ph Number 10 for all SMS reports	none	
P190E	<b>SMS</b> Report Zone Alarms by SMS	All on	49
P191E	<b>SMS</b> Report Misc Alarms by SMS	See page	50
P192E	<b>SMS</b> Report Zone Restorals by SMS	All on	49
P193E	<b>SMS</b> Report Misc Restorals by SMS	All on	50
P194E	1E Send AREA 1 Open/Close by SMS	OFF	54
	<b>SMS</b> 2E Send AREA 2 Open/Close by SMS	OFF	
P199E	Serial Output Options 1E-7E	All off	80

### ACCESS CONTROL OPTIONS

P300E	DEFAULT ALL ACCESS CONTROL OPTIONS		81
P301E	1E Use reader addresses	OFF	82
	2E Arm with double read	ON	
	3E Arm with single read and pushbutton	OFF	
	4E Disarm with access card	ON	
	5E REX Input 1 (Zone 5 input)	OFF	
	6E REX Input 2 (Zone 6 input)	OFF	
	7E REX Input 3 (Zone 7 input)	OFF	
	8E Strobe Flash on Arm/Disarm by Reader	ON	
P303E	DOTL zones	none	83-84
P304E	DOTL time	20 sec	
P305E	1E DOTL output LATCHES	OFF	
	2E DOTL outputs to Output Expander	OFF	
	3E DOTL Timer in Minutes	OFF	
	4E DOTL Timer in Hours	OFF	
	5E DOTL zone flashes on keypad	OFF	

OPTION	DESCRIPTION	DEFAULT	PAGE
<b>AUX OUTPUTS</b>			
P318E	1E Ultraprox Reader 1 to AUX1	OFF	85
	2E Ultraprox Reader 1 to AUX2	OFF	
	3E Ultraprox Reader 1 to AUX3	OFF	
	4E Ultraprox Reader 1 to AUX4	OFF	
	5E Ultraprox Reader 1 to AUX5	OFF	
	6E Ultraprox Reader 1 to AUX6	OFF	
	7E Ultraprox Reader 1 to AUX7	OFF	
	8E Ultraprox Reader 1 to AUX8	OFF	
P319E	Ultraprox Reader 1 output TIME	5 sec	
P328E	1E Ultraprox Reader 2 to AUX1	OFF	
	2E Ultraprox Reader 2 to AUX2	OFF	
	3E Ultraprox Reader 2 to AUX3	OFF	
	4E Ultraprox Reader 2 to AUX4	OFF	
	5E Ultraprox Reader 2 to AUX5	OFF	
	6E Ultraprox Reader 2 to AUX6	OFF	
	7E Ultraprox Reader 2 to AUX7	OFF	
	8E Ultraprox Reader 2 to AUX8	OFF	
P329E	Ultraprox Reader 2 output TIME	5 sec	
P338E	1E Ultraprox Reader 3 to AUX1	OFF	
	2E Ultraprox Reader 3 to AUX2	OFF	
	3E Ultraprox Reader 3 to AUX3	OFF	
	4E Ultraprox Reader 3 to AUX4	OFF	
	5E Ultraprox Reader 3 to AUX5	OFF	
	6E Ultraprox Reader 3 to AUX6	OFF	
	7E Ultraprox Reader 3 to AUX7	OFF	
	8E Ultraprox Reader 3 to AUX8	OFF	
P339E	Ultraprox Reader3 output TIME	5 sec	

**U** REAL TIME CLOCK options can be programmed in User Program Mode.

P340E	Real Time Clock set MINUTES	00 (00-59)	75
P341E	Real Time Clock set HOURS	00 (00-23)	
P342E	Real Time Clock set DAY	01 (01-31)	
P343E	Real Time Clock set MONTH	01 (01-12)	
P344E	Real Time Clock set YEAR	09 (00-63)	

OPTION	DESCRIPTION	Default
<b>AutoTimer 1</b>		
<b>P350E</b>	Minutes 0-59	
<b>P351E</b>	Hours 0-23	
<b>P352E</b>	Days (1=Sunday)	
<b>P353E</b>	1E AREA 1 arm	
	2E AREA 2 arm	
	3E HOME arm	
	4E Code Enable	
	5E Code Disable	
	6E KEYPAD Beeps	
	7E RESET O/P Beeps	
	8E Extend AutoTIME	
<b>P354E</b>	1E AREA 1 disarm	
	2E AREA 2 disarm	
	3E HOME disarm	
	4E Uses AUX5&6 not AUX1&2	
	5E AUX1 TOGGLE	
	6E AUX1 PULSE	
	7E AUX2 TOGGLE	
	8E AUX2 PULSE	

OPTION	DESCRIPTION	Default
<b>AutoTimer 4</b>		
<b>P365E</b>	Minutes 0-59	
<b>P366E</b>	Hours 0-23	
<b>P367E</b>	Days (1=Sunday)	
<b>P368E</b>	1E AREA 1 arm	
	2E AREA 2 arm	
	3E HOME arm	
	4E Code Enable	
	5E Code Disable	
	6E KEYPAD Beeps	
	7E RESET O/P Beeps	
	8E Extend AutoTIME	
<b>P369E</b>	1E AREA 1 disarm	
	2E AREA 2 disarm	
	3E HOME disarm	
	4E Uses AUX5&6 not AUX1&2	
	5E AUX1 TOGGLE	
	6E AUX1 PULSE	
	7E AUX2 TOGGLE	
	8E AUX2 PULSE	

OPTION	DESCRIPTION	Default
<b>AutoTimer 7</b>		
<b>P380E</b>	Minutes 0-59	
<b>P381E</b>	Hours 0-23	
<b>P382E</b>	Days (1=Sunday)	
<b>P383E</b>	1E AREA 1 arm	
	2E AREA 2 arm	
	3E BRIEF DAY MODE arm	
	4E Code Enable	
	5E Code Disable	
	6E KEYPAD Beeps	
	7E RESET O/P Beeps	
	8E Extend AutoTIME	
<b>P384E</b>	1E AREA 1 disarm	
	2E AREA 2 disarm	
	3E BRIEF DAY MODE disarm	
	4E Uses AUX7&8 not AUX3&4	
	5E AUX3 TOGGLE	
	6E AUX3 PULSE	
	7E AUX4 TOGGLE	
	8E AUX4 PULSE	

<b>AutoTimer 2</b>		
<b>P355E</b>	Minutes 0-59	
<b>P356E</b>	Hours 0-23	
<b>P357E</b>	Days (1=Sunday)	
<b>P358E</b>	1E AREA 1 arm	
	2E AREA 2 arm	
	3E HOME arm	
	4E Code Enable	
	5E Code Disable	
	6E KEYPAD Beeps	
	7E RESET O/P Beeps	
	8E Extend AutoTIME	
<b>P359E</b>	1E AREA 1 disarm	
	2E AREA 2 disarm	
	3E HOME disarm	
	4E Uses AUX5&6 not AUX1&2	
	5E AUX1 TOGGLE	
	6E AUX1 PULSE	
	7E AUX2 TOGGLE	
	8E AUX2 PULSE	

<b>AutoTimer 5</b>		
<b>P370E</b>	Minutes 0-59	
<b>P371E</b>	Hours 0-23	
<b>P372E</b>	Days (1=Sunday)	
<b>P373E</b>	1E AREA 1 arm	
	2E AREA 2 arm	
	3E HOME arm	
	4E Code Enable	
	5E Code Disable	
	6E KEYPAD Beeps	
	7E RESET O/P Beeps	
	8E Extend AutoTIME	
<b>P374E</b>	1E AREA 1 disarm	
	2E AREA 2 disarm	
	3E HOME disarm	
	4E Uses AUX7&8 not AUX3&4	
	5E AUX3 TOGGLE	
	6E AUX3 PULSE	
	7E AUX4 TOGGLE	
	8E AUX4 PULSE	

<b>AutoTimer 8</b>		
<b>P385E</b>	Minutes 0-59	
<b>P386E</b>	Hours 0-23	
<b>P387E</b>	Days (1=Sunday)	
<b>P388E</b>	1E AREA 1 arm	
	2E AREA 2 arm	
	3E BRIEF DAY MODE arm	
	4E Code Enable	
	5E Code Disable	
	6E KEYPAD Beeps	
	7E RESET O/P Beeps	
	8E Extend AutoTIME	
<b>P389E</b>	1E AREA 1 disarm	
	2E AREA 2 disarm	
	3E BRIEF DAY MODE disarm	
	4E Uses AUX7&8 not AUX3&4	
	5E AUX3 TOGGLE	
	6E AUX3 PULSE	
	7E AUX4 TOGGLE	
	8E AUX4 PULSE	

<b>AutoTimer 3</b>		
<b>P360E</b>	Minutes 0-59	
<b>P361E</b>	Hours 0-23	
<b>P362E</b>	Days (1=Sunday)	
<b>P363E</b>	1E AREA 1 arm	
	2E AREA 2 arm	
	3E HOME arm	
	4E Code Enable	
	5E Code Disable	
	6E KEYPAD Beeps	
	7E RESET O/P Beeps	
	8E Extend AutoTIME	
<b>P364E</b>	1E AREA 1 disarm	
	2E AREA 2 disarm	
	3E HOME disarm	
	4E Uses AUX5&6 not AUX1&2	
	5E AUX1 TOGGLE	
	6E AUX1 PULSE	
	7E AUX2 TOGGLE	
	8E AUX2 PULSE	

<b>AutoTimer 6</b>		
<b>P375E</b>	Minutes 0-59	
<b>P376E</b>	Hours 0-23	
<b>P377E</b>	Days (1=Sunday)	
<b>P378E</b>	1E AREA 1 arm	
	2E AREA 2 arm	
	3E HOME arm	
	4E Code Enable	
	5E Code Disable	
	6E KEYPAD Beeps	
	7E RESET O/P Beeps	
	8E Extend AutoTIME	
<b>P379E</b>	1E AREA 1 disarm	
	2E AREA 2 disarm	
	3E HOME disarm	
	4E Uses AUX7&8 not AUX3&4	
	5E AUX3 TOGGLE	
	6E AUX3 PULSE	
	7E AUX4 TOGGLE	
	8E AUX4 PULSE	

**AUTOTIMER RELATED OPTIONS**

OPTION	DESCRIPTION	Default
<b>P390E</b>	AutoTime warning (1-99 min)	00
<b>P392E</b>	1E AutoTime codes Option	OFF
<b>P121E</b>	3E Enable AUX1 for AutoTimers	OFF
<b>P122E</b>	3E Enable AUX2 for AutoTimers	OFF
<b>P123E</b>	3E Enable AUX3 for AutoTimers	OFF
<b>P124E</b>	3E Enable AUX4 for AutoTimers	OFF
<b>P145E</b>	AUX1 Pulse Time (1-99 sec)	20 sec
<b>P146E</b>	AUX2 Pulse Time (1-99 sec)	20 sec
<b>P147E</b>	AUX3 Pulse Time (1-99 sec)	20 sec
<b>P148E</b>	AUX4 Pulse Time (1-99 sec)	20 sec

See pages 74-76 for descriptions of AutoTimer related options.

#### CONTROL PANEL PACKING LIST

- 1 D8XCEL or D16XCEL Main board
- 1 Housing
- 1 Keypad (not supplied with all models)
- 1 Power supply (Australia only)
- 1 12V 7Ah battery (Australia only)
- 1 3G Antenna
- 1 User manual
- 1 Installer manual
- 9 or 17 End Of Line resistors 2.2k (D8/D16)
- 1 Lead assembly for battery
- 1 Lead assembly for internal tamper
- 2 Housing cover screws
- 4 Circuit board standoffs

#### SPECIFICATIONS

POWER REQUIREMENTS		17VAC or 20VDC
QUIESCENT CURRENT DRAW		80mA with 1 keypad.
RECHARGEABLE BATTERY		12 volt 7.0 Amp/hour Sealed Lead Acid.
BATTERY CHARGING CURRENT		350mA maximum, current limited.
DYNAMIC BATTERY TEST		Backup battery is tested under load, hourly and on arming.
FUSES		2 Amp auto resetting / Siren output & Reset output. 500mA auto resetting / 12 volt auxiliary outputs. 200 mA auto resetting / strobe output.
3G MODULE		Dual-Band UMTS/HSPA+ 800(850)/2100MHz Quad-Band GSM/GPRS/EDGE 850/900/1800/1900MHz
SIM CARD TYPE		Standard SIM
ZONES		8 or 16 zone inputs. 2 x 24hr tamper inputs.
END OF LINE RESISTOR		Default 2200 Ohms (2.2k). Other values programmable.
MAXIMUM KEYPADS		Maximum 3x mixed keypads or 4x Navigator keypads per system
RECEIVER HEADER		Connection for the Ness Radio Interface.
AUX HEADER		Multi-pin connector provides outputs Aux1, Aux2, Aux3, Aux4, 12V DC and connection for output expander/s.
SERIAL HEADER		Serial data port for optional ethernet module or direct connect programming using NessComms™ software.
READER HEADER		Multi-pin port for connecting up to 3 Ness proximity access card readers.
SIREN		On board siren driver with timed output . Maximum 3 x 8 Ohm horn speakers.
STROBE		12V DC timed output. Maximum 2 x 1 Watt strobe lights.
RESET		12V DC timed output. Maximum 3 x 12V piezo screamers.
EQUIPMENT POWER OUTPUT		13.8V DC output for powering detectors and other equipment. Maximum 500mA.
DIMENSIONS	PLASTIC HOUSING	235w x 300h x 90d mm
	CARTON	330w x 310h x 105d mm
CARTON WEIGHT (Plastic Housing)		~ 4kg including plug pack and battery





# INSTALLATION RECORD



- NESS D8 ALARM CONTROL PANEL  
 NESS D16 ALARM CONTROL PANEL

- P26E** ENTRY DELAY TIME 1  
**P27E** ENTRY DELAY TIME 2  
**P28E** EXIT DELAY TIME  
**P29E** SIREN RESET TIME

	Seconds
	Seconds
	Seconds
	Minutes

DATE PURCHASED:	DATE INSTALLED:
INSTALLATION COMPANY:	
TELEPHONE:	
MONITORING COMPANY:	
TELEPHONE:	

### ZONE ASSIGNMENT

- P41E ENTRY DELAY 1  
P43E ENTRY DELAY 2  
P42E HANDOVER  
P40E INSTANT  
P45E AREA 1  
P46E AREA 2  
P51E MONITOR  
P52E 24 HOUR  
P54E RESET OUTPUT  
P55E STROBE OUTPUT  
P56E SONALERT OUTPUT  
P57E SIREN OUTPUT  
P74E Report (dialler)

ZONES	DEVICE TYPE	PIR, Reed switch, etc	DESCRIPTION	Entrance, bedroom1, etc	P41E ENTRY DELAY 1	P43E ENTRY DELAY 2	P42E HANDOVER	P40E INSTANT	P45E AREA 1	P46E AREA 2	P51E MONITOR	P52E 24 HOUR	P54E RESET OUTPUT	P55E STROBE OUTPUT	P56E SONALERT OUTPUT	P57E SIREN OUTPUT	P74E Report (dialler)
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	
2	P202E	
3	P203E	
4	P204E	
5	P205E	
6	P206E	
7	P207E	
8	P208E	
9	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.
20	P220E	
21	P221E	
22	P222E	
23	P223E	
24	P224E	
25	P225E	
26	P226E	
27	P227E	
28	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.
39	P239E	
40	P240E	
41	P241E	
42	P242E	
43	P243E	
44	P244E	
45	P245E	
46	P246E	
47	P247E	
48	P248E	
49	P249E	
50	P250E	
51	P251E	
52	P252E	
53	P253E	
54	P254E	
55	P255E	
56	P256E	

