

D8x D16x DELUXE



D8XD / D16XD ALARM CONTROL PANEL

Deluxe edition with expanded AUX outputs, Voice alarms, Voice prompts, enhanced modem, Real time clock.



8 or 16 Hardwired or Wireless zones



Auto-Time Automation



8 x AUX Outputs



Various Keypad Options



Operation by Smartphone / Internet



Operation by Telephone



Voice Alarms & Prompts



Access Control onboard



Options



Programming via Keypad



Programming via PC



NessComms Installer Software



On-Site Programming via PD Tool



Back To Base or Voice Dialler Monitoring



Adjustable Vibration Inputs on all Zones



C-BUS Compatible using Ness MiniCentral



Area Partitioning



Enhanced Serial Port for Integrators



Innovative Electronic Solutions

www.ness.com.au

National Customer Service Centre Ph: 1300 551 991 customerservice@ness.com.au







D8X/D16X DELUXE INSTALLATION & PROGRAMMING MANUAL

Document Part No: 890-017

Rev 1.5 Nov 2015

For use with Ness D8x/D16x DELUXE control panels V8.0 and later.

This manual can also be used for previous versions of D8x/D16x panels however some of the programming options covered are available only in V8 0 and later

Refer to installation manual 890-007 for D8x/D16x V7.8 and earlier.

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.

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. **ADSL NOTICE:** ADSL broadband data can interfere with the operation of your alarm dialler. It is recommended that a quality ADSL filter be installed as per the filter manufacturer's guidelines in premises with an alarm dialler installed.

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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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OPTIONAL PRODUCT





Ness iComms and aComms apps for mobile control of your D8x/ 16x control panel from home, office, anywhere in the world using your iPhone/iPad or Android device.

- ARM. DISARM
- VIEW ZONE STATUS
- **■** EMERGENCY ALARMS
- CONTROL THE PANEL OUTPUTS (D8X/D16X V7.8+)

Requirements:

D8x/D16x V5.6 or later (V7.8 or later to operate panel outputs).

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.

What's New in D8x/D16x Deluxe (v8)

- New PCB layout
- Now with 8 AUX outputs (1-4 on relay board or 1-8 on output expander/s)
- Added modem chip, use any modem in 300baud mode
- Voice alarms and voice prompts using a preset voice message library
- Real time clock onboard
- New connector for the Serial port, now 4 pin
- New connector for the Listen-in header
- Either 15VDC or dual 17VAC/20VDC power input (depending on model)
- Tamper/Prog link moved to corner of pcb for better accessibility
- Many new program options to cater for expanded AUX outputs

D8x/D16x All 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.
- Voice alarm reports & Voice prompts for remote telephone operation.
- · Home Mode allows partial arming, (eg, perimeter security overnight).
- Day Mode feature allows daytime monitoring of fire doors, coolrooms etc.
- Temporary Day Zone feature allows easy enabling/disabling of Day Mode.
- Keypad Panic and Duress feature.
- Two button arming feature.
- Fire Alarm feature with different siren tones.
- Highly flexible zone to output mapping.
- ONBOARD VIBRATION SENSOR ANALYSER with programmable sensitivity. Use with Nessensor™ vibration sensors.
- MULTIPLE PROGRAMMABLE EOL resistor values from 0k to 22k (2k2 resistors supplied).
- Siren chirp and strobe flash on arming with radio key.
- Quiet chirps option on arm/disarm by radio key.
- True DYNAMIC BATTERY TEST 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.
- Optional output expander.

DIALLER

- Full remote upload/download by PC and modem using NessComms™ software.
- View system status and arm/disarm using NessComms™.
- Remote control of outputs via telephone with voice prompts.
- Contact ID Format Two 14 digit phone numbers plus one "follow me" number.
- Voice alarm reporting feature.
- Phone line monitoring (activates output).
- Dialler 'Listen in' option for installers.
- Auto Test calls.
- · Pulse or DTMF dialling & true dial tone detection.
- Hex programmable client codes as required by some central stations.

Ness Comms Communications software Interior to to to the first of th

FREE SOFTWARE

Powerful PC-based programming & operation software

- Fast and easy installation programming
- Arm & Disarm remotely with the Virtual Keypad
- · Live zone status mode

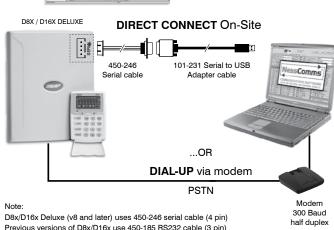
NESSCOMMS

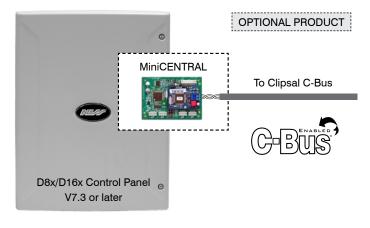
- Download system logs, including extended D8x/D16x logs not accessible by keypad - up to 80 events
- Database stores hundreds of clients
- All relevant control panel manuals are installed with NessComms
- Free For Trade users

Now the preferred programming tool for many installers, NessComms makes control panel programming as simple as ticking the boxes.

Connect to your control panels on site via modem and landline. If your standard modem is capable of 300 baud half duplex operation it may be suitable for use with Nesscomms.

For the added convenience of on-site programming, D8x and D16x panels also allow direct connect via serial port for fast and easy access by laptop computer. The Ness 450-185 Serial Cable is required.





MINI CENTRAL C-BUS

Part No. 106-125

The Ness MiniCENTRAL C-Bus interface combined with a Ness D8x or 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.



OPTIONAL PRODUCT

Portable Download Tool

Part No. 106-017

NESS PD

Ness PD is the fast, easy and simple way to copy programming options from one control panel to another in the field - all without a computer.

Ness PD copies and loads data from panel to panel using the READER header on D8x and D16x panels.

- Stores separate data for one D8x and one D16x.
- Ideal for programming service panels.
- Use Ness PD to store your default programming for even faster commissioning on site.

Requires D8x/D16x V7.4 or later. Not compatible with 106-009 D16x C-Bus panel.

How to use the NessPD, see page 13.

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.

- 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.
- If the above is not available, then it is advisable to wear clothing that will minimise the build-up of static.
- 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.
- To minimise the build-up of static, avoid walking around as much as possible while working on the installation.
- 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 shown in this installation manual.
- 6. Fit the battery into the housing but DO NOT CONNECT the battery yet.
- 7. Insert the panel tamper bracket leads as shown below.
- 8. Power up as described below.
- 9. 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.

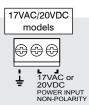
If the heartbeat LED does not flash steadily or cycles off intermittently there may be a problem with the initialisation of the onboard memory. To remedy, in Installer Program Mode press P95E, P97E & P98E to erase all programming and reload factory defaults. Then remove power by briefly removing one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

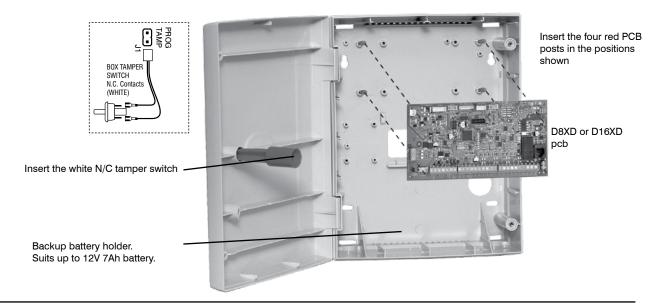
TURN ON THE EXTERNAL POWER SUPPLY. The Current Limiting Globes may glow slightly to indicate that the battery is charging correctly.



Your panel may have either a 15VDC or dual 17VAC/20VDC power input. Please use the correct power supply as shown on page 8







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 may have either a 15VDC or 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.

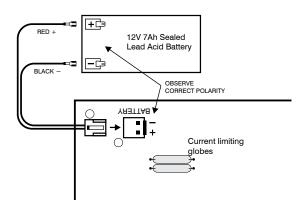
The panel will shut down if battery voltage is below 11V and mains power is off.

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.

SIRF

The on-board siren driver will drive a maximum of 3×8 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.

STE

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 \times 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:

- 1. To enter Installer Program Mode on initial power up. Powerup with the PROG link OFF. The PROG link (or Box Tamper lead) must be ON in operating mode.
- 2. **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.

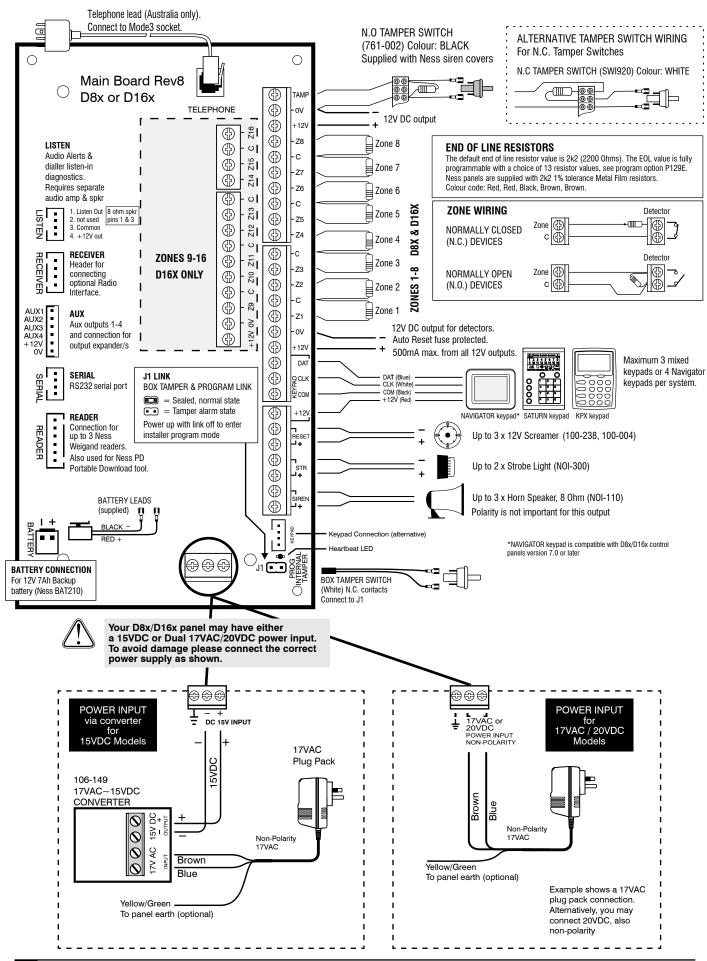
Recommended maximum power load:

3 x Horn speakers (SIREN output)

2 x Strobe lights (STR output)

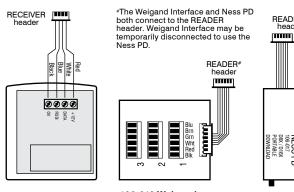
2 x Ness Internal Sirens (100-172) (RESET output)

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



CONNECTION DIAGRAMS

Optional Accessories for D8 & D16



100-200 Ness Radio Interface.

6 wire example

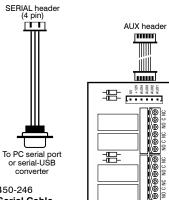
with 24hr Tamper

106-012 Weigand Interface.

Provides connection for up to 3 addressable Weigand Readers (Ness See page 82.

106-017 Ness PD Portable Download

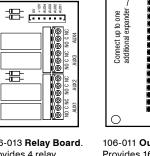
Tool. For easy on-site copying and re-loading of programming options. Requires D8x/ D16x version 7.4 or later.



450-246 Serial Cable.

Used for two-way serial comms or direct connect to a PC. Note. Previous D8/D16 requires the 3 pin header

cable 450-185



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

106-011 Output Expander. Provides 16 programmable open collector outputs. See page 54.

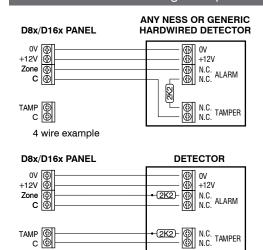
AUX header

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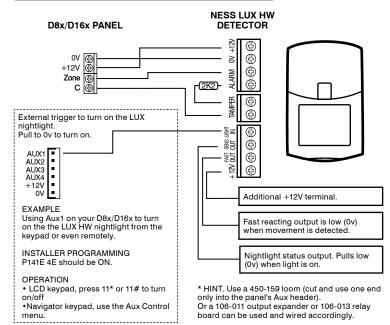
The Relay Board and the Output Expander Board connect to the Aux header but not at the same time.

Generic Detector Wiring Examples

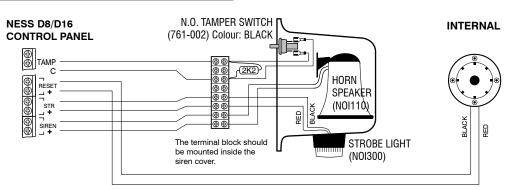


Siren Wiring Examples

LUX HW Detector Wiring



EXTERNAL



KEYPAD



The instructions on this page relate to Ness Saturn and KPX keypads.

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

KEYPAD BEEPS

BEEPS	MEANING
J 1 BEEP	Any key press.
J J 3 BEEPS	Valid Command.
	Error.
J10	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 one minute.

DISPLAY TEST

To display all available keypad icons press and hold the $\stackrel{\textstyle (E)}{=}$ button for at least 2 seconds. All icons will be displayed while the $\stackrel{\textstyle (E)}{=}$ button is held down.

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

NUMBER OF KEYPADS

Up to 3 LCD keypads can be connected to a panel.

CABLE LENGTH

The maximum allowable cable length is 100m (total cable length to all keypads).

KEYPAD DISPLAY INDICATORS IN OPERATING MODE

KEYPAD ICON DISPLAY	OFF	ON	FLASHING
ZONES 1-8 (or 1-16)	Zone is sealed.	Zone is unsealed.	Zone is in alarm.
OK READY TO ARM	Zone/s are unsealed. or Power fault. or Panel is armed. or phone line fault.	Ready to Arm	
ARMED	Panel is disarmed, or Area 1 is disarmed, if using Areas.	Panel is armed, or Area 1 is armed, if using Areas.	
2 ARMED	Area 2 is disarmed.	Area 2 is armed if using Areas.	
1 HOME	Home Mode is disarmed.	Panel is armed in Home Mode.	Day Mode enabled, (see page 20).
MEMORY	Normal.	Memory mode selected.	New alarm/s in memory.
((A))	Normal.	Receiving a radio signal. (If radio fitted.)	A Radio Key or other radio device has low battery.
TAMPER	Normal.		Internal Tamper: Double Flash with long pause. External Tamper: Steady flash.
EXCLUDE	Normal.		Zone/s are Excluded.
+ - LOW BATTERY	Normal.		The backup battery is low.
MAINS OFF	Normal.		Mains power is off.
PROG	Normal.	User Program Mode.	Installer Program Mode.
LINE	Normal	Dialler is on line.	Phone line fault or failure to communicate.

KEYPAD DISPLAY INDICATORS IN MEMORY MODE

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

OPERATION SUMMARY

OPERATION	by KEYPAD	by RADIO KEY	by ACCESS CARD or FOB	
to ARM The panel must initially be disarmed.	Press (ARM) + (E) (If the Arming Shortcut is enabled, P62E 5E) or press (ARM) + [User Code] + (E) or press [User Code] + (E) (If Code Only Arming has been enabled for that user code. Extra Option 4E)	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).	
to DISARM To disarm and/or reset alarms.	Press [User Code] + (E)	Press the OFF button once.*	Present a Card or Fob once. (if P301E 4E is on).	
to arm HOME MODE Area1 must initially be disarmed. Home Mode can be used if the panel is fully disarmed or if	Press (MONITOR) + (E) (If the Home Shortcut is enabled, P62E 3E)	x2	(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
only Area2 is armed, see page 20 for more information.	Press either the OFF Or press the AUX but-		n once. (If P120E 3E on). RK4 radio key nly. be enabled by strobe flash can	
PANIC alarm	Press * # keys together or press * + [User Code] + E or press * + E (If Keypad Panic Shortcut is enabled, P62E 4E)	be enabled by P64E 6E, (off by default). Press and hold the PANIC button for at least 4 sec. If P68E 1E Double Press Radio Panic is enabled, press and hold twice for 4 sec.		
KEYPAD DURESS Keypad Duress allows the user to send a silent duress report while disarming, (if the system is being monitored by a central station).	Press [5, 6, 8 or 9]+[User Code] + (Add one these digits in front of a user code w	one these digits in front of a user code when disarming. sequence will disarm the panel and send a Duress report by dialler to the central station.		
EXCLUDE ZONES EXCLUDE + E can only be used when the panel is disarmed. EXCLUDE + CODE + E can be used anytime.	Press (Columb + E) (If the Exclude Shortcut is enabled, P62E 2E) then [Zone No.] + E) [Zone No.] + E) (Enter the zone number/s to be excluded.) then press E) to exit Exclude mode The Exclude light flashes constantly while zones are excluded. Excluded zones are automatically Included next time the panel is disarmed.			
OPERATE AUX OUTPUTS The AUX outputs must be enabled for operation by keypad. See P141E 4E, P142E 4E, P143E 4E, P144E 4E.	Press 2 2 * to turn ON or PULSI Press 3 3 * to turn ON or PULSI	PULSE AUX1. Press 1 1 1 1 to turn OFF. PULSE AUX2. Press 2 2 1 to turn OFF. PULSE AUX3. Press 3 3 1 to turn OFF. PULSE AUX4. Press 4 4 1 to turn OFF.		

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

TEMPORARY DAY ZONE (TDZ) operation While remaining in normal operating mode, the user can add and remove Temporary Day Zones and enable/disable day zone operation.		
The panel must initially be disarmed.	Press P + E To enter TDZ Selection Mode.	
P64E 2E must be on to enable the use of Temporary Day Zones.	then press [Zone No.] $+$ \cancel{E} To select one or more zone to be Temporary Day Zones. then press \cancel{E} To save changes and exit TDZ Selection Mode.	
See page 20 for more information on Temporary Day Zones.	Press (0) + (E) To enable/disable TDZ operation. Temporary Day Zone mode enabled is indicated by the Home icon flashing.	

PROGRAMMING

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

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

STEP	KEYSTROKES	DESCRIPTION	COMMENT	
1	P123E	Enters User Program Mode.	Program light will turn on. (Default User Code is 123).	
2	P201E	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	PE	To exit program mode.	Program light will turn off.	

QUICK START 2 - AUDIBLE MONITORING

STEP	KEYSTROKES	DESCRIPTION	COMMENT	
1	P123E	Enters User Program Mode.	Program light will turn on. (Default User Code is 123).	
2	P000000E	Enters Installer Program Mode.	Program light will flash. (Default Installer Code is 000000).	
3	P201E	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	P86E4E	Turns on option P86E 4E	Enables Audible Monitoring.	
7	P70E	Selects the option for Telephone Number 1.		
8	E	Enter the telephone number followed by E.	30 digits maximum.	
9	PE	To exit program mode.	Program light will turn off.	

QUICK START 3 - CENTRAL STATION MONITORING

STEP	KEYSTROKES	DESCRIPTION	COMMENT	
1	P123E	Enters User Program Mode.	Program light will turn on. (Default User Code is 123).	
2	P000000E	Enters Installer Program Mode.	Program light will flash. (Default Installer Code is 000000).	
3	P201E	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	P86E2E	Turns on option P86E 2E	Enables Contact ID format.	
7	P70E	Selects the option for Telephone Number 1.		
8	E	Enter the telephone number followed by E.	30 digits maximum.	
8	P72E	Selects the option for Account Number 1.		
10	E	Enter the Account number followed by E.	4 digits maximum. The account number is supplied by your central monitoring station.	
11	PE	To exit program mode.	Program light will turn off.	

SPECIAL FUNCTIONS IN PROGRAM MODE

SPECIAL FUNCTION	PROGRAM MODE	KEYPRESS
SEND DIALLER TEST REPORT	USER	P 66666666 E (eight 6's)
Send a Dialler Test Report to the telephone number programmed at P70E.		
SIREN TEST 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 (eight 7's)
PANEL RESET This function resets the microprocessor. The effect is the same as powering down and powering up again. INSTALLER'S TIP: 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 (eight 8's)
DISPLAY SOFTWARE VERSION 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 (eight 9's)

FACTORY DEFAULTS

Master Code: 123 Installer Code: 000000



INSTALLER PROGRAM MODE

Installer Program Mode allows access to ALL program options.

NOTE1. When in Installer Program Mode the the panel will answer all incoming telephone calls. This allows NessComms to connect via dial-up.

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

NOTE2. 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.

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

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



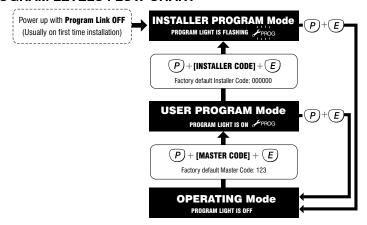
METHOD 2. USING THE KEYPAD TO ENTER PROGRAM MODE The panel must be Disarmed.

- 1. Press P [MASTER CODE] E The keypad will respond with 3 beeps This is User Program Mode (PROGRAM light is ON).
- 2. Press P [INSTALLER CODE] E The keypad will respond with 3 beeps J This is Installer Program Mode (PROGRAM light is FLASHING).

HOW TO EXIT PROGRAM MODE

Press P then E
 Exits directly to Operating Mode (PROGRAM light is OFF).

PROGRAM LEVELS FLOW CHART



HOW TO PROGRAM A PANEL USING NESS PD

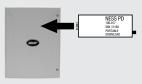
The Ness PD Portable Download tool copies and loads data from panel to panel using the READER header on D8x & D16x panels. Requires D8x/D16x version 7.4 or later.

From Panel to PD



- 1. The panel should be in ${\bf Installation\ Program\ Mode}.$
- 2. Connect the NessPD to the READER header on the panel.
- 3. Remove the PROTECT link on the NessPD.
- 4. Press P+E to **exit Installation Program Mode**. At this stage, all panel programming options will be automatically copied to the NessPD. The green LED on the NessPD will turn on for 2sec to indicate the data has been saved.
- 5. Replace the PROTECT link on the NessPD to write-protect the saved data.

From PD to Panel



- 6. The panel should be in Normal Operating Mode (or powered off).
- 7. Connect the NessPD to the READER header on the panel.
- 8. Use the keypad to enter Installation Program Mode (or power up the panel with box tamper unsealed). At this stage, all panel programming options will be automatically copied from the NessPD to the panel. The green LED on the NessPD will turn on for 2sec to indicate the data has been copied.
- 9. Exit Installation Program Mode.

Notes:

- 1. A NessPD can store defaults for both a D8x and a D16x at the same time. NessPD auto-recognises the panel type and will not copy D8x options into a D16x (or vice versa). Repeat steps 1 to 5 to copy data from both panels.
- 2. The READER header is normally used for access control. Your 106-012 Weigand Interface, if installed, can be temporarily disconnected while using NessPD.
- 3. The PROTECT link prevents the NessPD from being overwritten.
- 4. If The GREEN indicator does not come on, then the NessPD is not connected to the panel. If it comes on briefly then the NessPD is Protected or has no data for that panel model or the data is not compatible (the program option list is different).
- 5. If the PROTECT link is not installed, any further programming changes made to the panel will be copied to the NessPD.

P101E - P116E

P201E - P256E

PROGRAM MODE LEVEL

User, Installer, Remote by PC (except radio keys and access cards).

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 53.
- 2. Open/Close reports are identified by user number when the control panel is base station monitored.

RELATED OPTIONS

Installer Code. See Page 13, How To Enter Program Mode.

Page 53, Programming The Installer Code.

Installer Code default: 000000

RELATED OPTIONS

Programming Radio Codes, page 74

IMPORTANT NOTES

- A User Code can be a Keypad Code, Radio Code or Reader Code, but only one type at any one time.
- By factory default all user codes are Keypad Codes.
- Any user codes not assigned to be Radio Codes or Reader Codes remain as Keypad Codes.
- 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.
- ① 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 PROGRAMMING SEE PAGES 72, 73.

USER CODES

D8x and D16x version 5 and later 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)

• 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

• 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.

- 1 The Arm Only feature also applies to Radio Keys and Access Cards.
- 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).
- Arm Only codes can also arm Home Mode as normal.
- Radio Keys programmed as an Arm Only can toggle the armed/disarmed state of the panel using the OFF button on the radio key.

USER CODE OPTIONS TABLE

EXCLUDE+E toggles EXTRA OPTIONS MODE. The Exclude light indicates this mode is on/off. (Installer Program mode only)

USER CODE OPTION NO.	9E
1 (Master) P201E 123 ON ON	r Au-
2 P202E ON 3 P203E ON 4 P204E ON 5 P205E ON 6 P206E ON	
4 P204E ON 5 P205E ON 6 P206E ON	
5 P205E ON 6 P206E ON	
6 P206E ON	
7 P207E ON	
8 P208E ON ON	
9 P209E ON	
10 P210E ON	
11 P211E ON	
12 P212E ON ON	
13 P213E ON	1
14 P214E ON	
15 P215E ON	<u> </u>
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	1
31 P231E ON	-
32 P232E ON STATE OF THE ONE STATE ON STATE OF THE ONE	+
	1
34 P234E ON	1
35 P235E ON STATE ON STATE ON STATE OF THE ON	+
37 P237E ON	+
38 P238E ON	+
39 P239E ON	+
40 P240E ON	\vdash
41 P241E ON	+
42 P242E ON	1
43 P243E ON	1
44 P244E ON	<u> </u>
45 P245E ON	1
46 P246E ON	1
47 P247E ON	1
48 P248E ON ON	
49 P249E ON ON	
50 P250E ON	
51 P251E ON	
52 P252E ON	
53 P253E ON	
54 P254E ON	
55 P255E ON	
56 P256E ON	

PROGRAMMING

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**, (Exclude light is off), you can do the following:

Program Keypad Codes (see page 14). Program Radio Codes (see page 74). Program Access cards (see page 76). View radio signal strength (see page 72).

In **EXTRA OPTIONS mode**, (Exclude light is on), you can assign several powerful functions to each user code. See below.

To view and program the Extra Options:

- 1. Select a User Code (P201-P256E). The Exclude light is OFF.
- 2. Press EXCLUDE E. The Exclude light turns ON.

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.
 - ① User codes can be assigned to Area 1, Area 2, both areas or no areas.
 - An Area will not arm unless it has one or more zones assigned to it (P45E, P46E).
 - **f** 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.
 - **1** In the case of radio codes the radio key OFF button will toggle the armed state of the area assigned to the radio key.
 - f 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.

- f in Home mode, the action is to exit Home mode.
- Codes selected for Code Only Arming and not assigned to any areas are automatically REX codes. See page 82.
- 5E RADIO CODE. Enables selected user codes as Radio Codes for operation by Ness Radio Key or Radio Keypad. (Page 74 how to program Radio Codes).
- 6E READER CODE 1. Enables user codes as Access Control codes assigned to Reader 1. (Page 76 - Access Cards).
- 7E READER CODE 2. Enables user codes as Access Control codes assigned to Reader 2. (Page 76 - Access Cards).
- **8E** READER CODE 3. Enables user codes as Access Control codes assigned to Reader 3. (Page 76 Access Cards).
 - 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 71, 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

P26E

PROGRAM MODE LEVEL

User, Installer mode or NessComms.

FACTORY DEFAULT

20 (seconds)

NOTES

- Programmable from 1 99 seconds.
- The Entry Delay Time also sets the delay before Auto Re-Arming. See P68E 2E page 34.

RELATED OPTIONS

P120E 7E Entry Delay Extender

P27E

PROGRAM MODE LEVEL

User, Installer mode or NessComms.

FACTORY DEFAULT

6 (= 60 seconds)

NOTES

Programmable from 10 - 990 seconds.

ENTRY DELAY TIME1

The Entry Delay Time 1 is the time given to disarm the panel after a Entry Delay 1 zone is unsecured.

The Entry Delay Time1 setting is from 1 to 99 seconds in 1 second increments. Entry Delay Time1 can be up to a maximum of 990 seconds by enabling option P120E 7E.

TO PROGRAM

Press P26E (The existing time will be displayed).

Press [NEW TIME] E (The new time will be displayed).

ENTRY DELAY TIME2

The Entry Delay Time2 is the time given to disarm the panel after an Entry Delay2 zone is unsecured.

The Entry Delay Time2 setting is from 10 to 990 seconds (1 – 99).

Note: The Entry Delay Time2 is set in 10 second increments so that a value setting of 6 means a 60 seconds delay.

PROGRAMMING SEQUENCE:

P27E existing time is displayed one digit at a time

[ENTER NEW TIME] E new time is displayed one digit at a time

EXAMPLE: To program Entry Delay Time2 to be 600 seconds:

P27E 60E

P28E

PROGRAM MODE LEVEL

User, Installer mode or NessComms.

FACTORY DEFAULT

60 (seconds)

NOTES

Programmable from 1 - 99 seconds

RELATED OPTIONS

P62E 8E Exit Time x10

EXIT DELAY TIME

The 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.

The Exit Delay Time setting is from 1 to 99 seconds in 1 second increments.

PROGRAMMING SEQUENCE:

P28E existing time is displayed one digit at a time

[ENTER NEW TIME] E new time is displayed one digit at a time

EXAMPLE: To program Exit Delay to be 85 seconds:

P28E 85E

P29E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

5 (minutes)

NOTES

- Programmable from 1 99 minutes.
- Siren times of longer than 5 minutes are contrary to noise pollution regulations in most areas.

SIREN RESET TIME

The Siren Reset Time sets the duration of the Siren and Reset outputs.

The Siren Reset Time setting is from 1 to 99 minutes in 1 minute increments.

PROGRAMMING SEQUENCE:

P29E existing time is displayed one digit at a time

[ENTER NEW TIME] E new time is displayed one digit at a time

EXAMPLE: To program Siren Time to be 4 minutes:

P29E 4E

P30E - P36E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

Normal sensitivity. P30E, all zones = ON.

NOTES

- Sensitivity can be individually programmed for each zone.
- 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.
- To revert zone sensitivity back to Normal, turn on the required zone/s at P30E.

Sensitivity Level "Extreme" (P31E) is provided as a guide to the upper limit and should **NOT BE USED**.

For compatibility with existing installations, the sensitivity levels P31E to P36E are identical to previous versions of D8/D16.

VIBRATION SENSITIVITY

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.

P31–36E are the options for the 6 levels of vibration sensitivities. P31E is the most sensitive setting.

PROGRAMMING SEQUENCE:

P [30-38] E zones are displayed [Zone No] E

EXAMPLE: To program zones 2 and 3 to be Medium sensitivity: P34E 2E 3E *the keypad display will show zone lights 2 & 3 on.*

			ZONES 1-8 (D8 & D16)									ZONES 9-16 (D16)							
	Option No.	Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	P30E	NORMAL	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	
S	P31E	Vibration EXTREME*																	
OPTIONS	P32E	Vibration HIGHEST																	
_	P33E	Vibration HIGH																	
VIBRATION	P34E	Vibration MEDIUM																	
IBRA	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



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.

P37E - P38E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

all off

NOTES

- A Long Response Zone cannot be a Normal Zone or Vibration zone at the same time.
- To convert zone/s back to a Normal Zone, turn on the required zone/s at P30E.

RELATED OPTIONS

P301E 5E-7E Request To Exit (REX)

LONG RESPONSE ZONES

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).

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.

PROGRAMMING SEQUENCE:

P37E or P38E [Zone No]E toggles zones ON and OFF

PROGRAMMING

			•			ZONES 1-8 (D8 & D16)						2	ZONI	ES 9-16 (D16)				
	Option No.	Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	P39E	DOUBLE TRIGGER zones																
ZONE DELAY TYPES	P40E	INSTANT zones			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Only one option per zone can be	P41E	ENTRY DELAY 1 zones	ON															
selected. For example; a zone cannot	P42E	HANDOVER zones		ON														
be instant and delayed at the same.	P43E	ENTRY DELAY 2 zones																
	P44E	LOCKOUT zones (Reset O/P)	ИО	ИО	ON	ON	ON	ОИ	ON	ON	ON	ON	ON	ON	ON	ON	NO	ON
	P45E	AREA 1 zones	ON	ОИ	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																

P39E

PROGRAM MODE LEVEL

Installer mode or NessComms.

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.
- 0E will turn all selections OFF. MEMORY E will turn all selections ON.

DOUBLE TRIGGER ZONES

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.

PROGRAMMING SEQUENCE:

P39E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone is not a Double Trigger zone [Zone No] ON: The zone is a Double Trigger zone

P40E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

D8, 3E-8E ON: Zones 3-8 are Instant. D16, 3E-16E ON: Zones 3-16 are Instant.

NOTES

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

INSTANT ZONES

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.

PROGRAMMING SEQUENCE:

P40E [Zone No]E turns the options ON

[Zone No] ON: The zone is an Instant Zone

To deselect the option, select a different zone type in the DELAY GROUP.

P41E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

1E ON: Zone 1 has Entry Delay1.

NOTES

- The keypad sonalert will beep during Entry Delay as a reminder to disarm the panel. Entry beeps can be disabled by program option P60E 1E.
- When a zone is selected for this type, it is automatically deselected from any other zone type in the DELAY GROUP.

ENTRY DELAY1 ZONES

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.

PROGRAMMING SEQUENCE:

P41E [Zone No]E turns the options ON

[Zone No] ON: The zone is an Entry Delay1 zone

To deselect the option, select a different zone type in the DELAY GROUP.

P42E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

2E ON: Zone 2 is a Handover zone.

NOTES

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

P43E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All OFF: No zones have Entry Delay2.

NOTES

P44E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All ON: All zones are Lockout zones.

NOTES

- · The SIREN output always locks out.
- 0E will turn all selections OFF.
 MEMORY E will turn all selections ON.

RELATED OPTIONS

P60E 4E Tamper Reset Lockout. **P78E** Multiple alarm reports.

HANDOVER ZONES

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.

PROGRAMMING SEQUENCE:

P42E [Zone No]E turns the options ON

P42E [Zone No]E ON: The zone is a Handover zone

To deselect the option, select a different zone type in the DELAY GROUP.

ENTRY DELAY2 ZONES

When an Entry Delay2 zone is triggered, it has entry delay as set by the Entry Delay Time2 (P27E).

PROGRAMMING SEQUENCE:

P43E [Zone No]E turns the options ON

P43E [Zone No]E ON: The zone is an Entry Delay2 zone

To deselect the option, select a different zone type in the DELAY GROUP.

RESET LOCKOUT ZONES

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.

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.

PROGRAMMING SEQUENCE:

P44E [Zone No]E toggles the options ON and OFF

P44E [Zone No]E OFF: The zone is not a Lockout zone P44E [Zone No]E ON: The zone is a Lockout zone

AREA PARTITIONING

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

P45E, P46E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

No zones assigned to Area 2.

NOTES

- For options P45E and P46E, **[Zone No] E** toggles the selection ON and OFF.
- Zones assigned to BOTH areas become Common zones.
- If no Area operation is required, assign all zones to Area 1. (This is also the factory default).

ASSIGNING ZONES TO AREAS

Assign (or remove) zones that will operate in Area 1 and/or Area 2.

PROGRAMMING SEQUENCE:

P45E [Zone No]E toggles the options ON and OFF for Area1

[Zone No] OFF: The zone is not in Area1 [Zone No] ON: The zone is in Area1

P46E [Zone No]E toggles the options ON and OFF for Area2

[Zone No] OFF: The zone is not in Area2 [Zone No] ON: The zone is in Area2

EXAMPLE:

To program zones 1-4 for Area 1 and zones 1, 5-8 for Area 2.

In this example, we have assigned zone 1 to both areas, so it becomes a Common Zone.

P45E use the **[Zone No] E** sequence to turn ON only zones 1-4.

P46E use the [Zone No] E sequence to turn ON zone 1 and zones 5-8.

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.
- 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.
- 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 *all* Home zones will have entry delay as set by P27E.

TEMPORARY DAY ZONES

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.

0 + 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.

 $\textbf{P53E}, \, \text{Permanent Day Zone selection}.$

P126E 4E, Enable KPX Chime in Day Mode

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.

P47E, P48E, P49E, P50E

See page 14, 15 programming User Codes.

P51E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

all OFF: No Home zones.

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.

RELATED OPTIONS

P63E Home Mode output mapping.

P64E 1E Brief Home alarm.

P64E 3E Home zones have Entry Delay2.

P69E 3E Quiet Home siren.

P69E 5E Radio Key ON or OFF button arms Home Mode.

P120E 2E Home arm chirps by radio key. P120E 3E Radio Key AUX button arms

Home mode.

P120E 6E Smart Beeps for Home and Day zones.

ASSIGNING USER CODES TO AREAS

Options P201E-P256E are now used for assigning user codes to areas.

(Experienced users can still use options P47E-P50E for this function, but only up to user code 15).

HOME ZONES

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.

For example: upstairs zones are Disarmed while downstairs zones are Armed in Home mode.

PROGRAMMING SEQUENCE:

P51E [Zone No]E toggles the options ON and OFF

P51E [Zone No]E OFF: The zone is not a Home zone

P51E [Zone No]E ON: The zone is a Home zone

NOTE: Zones selected to Report Zone Alarms (P74E) will by default report alarms in Home Mode, (if the dialler is enabled).

The Brief Home Alarm option P64E 1E, when enabled, prevents Home alarms from reporting.

See page 20 for Home operation.

P52E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All OFF: No 24hr zones.

NOTES

- · The Tamper input is always a 24hr
- For silent 24hr zones, deselect the zone/ s from options P54E-P57E (Reset, Strobe, Sonalert & Siren).
- To change a 24hr zone to any other zone type, the zone must also be reassigned to an AREA (P45E or P46E).

24hr ZONES

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.

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.

PROGRAMMING SEQUENCE:

P52E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone is not a 24hr zone

[Zone No] ON: The zone is a 24hr zone

P53E

PROGRAM MODE LEVEL

Installer, Remote by PC

FACTORY DEFAULT

all OFF: No Day zones

RELATED OPTIONS

P63E 5E-8E Day zone output mapping. P64E 2E Brief Day Mode alarm.

P120E 6E Smart Beeps for Home and Day zones.

TYPICAL USES FOR DAY ZONES: Instant alert when a delivery door is opened, doorway alert for a shop.

DAY ZONES

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.

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.

The Temporary Day Zones feature allows day mode to be easily enabled/disabled and day zones added/removed by the user from any keypad.

PROGRAMMING SEQUENCE:

P53E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone is not a Day zone [Zone No] ON: The zone is a Day zone

See page 20 for information on TEMPORARY DAY ZONES.

ZONE TO OUTPUT MAPPING

When a zone alarms, it can turn on any or all of the following 6 outputs: Sonalert, Strobe, Siren, Reset, AUX1, AUX2.

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 28.

MAPPING	ZONES TO OUTPUTS	ZONES 1-8 (D8 & D16)									ZONES 9-16 (D16)								
Option No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
P54E	RESET Zones	ОИ	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	ОИ	ON	ON	ON	ON	ON	ON	ON										
P57E	SIREN Zones	ОИ	ON	ON	ON	ON	ON	ON	ON										
P58E	AUX1,3 Zones																		
P59E	AUX2,4 Zones																		

P54E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

All ON: All zones trigger Reset output.

NOTES

• **0E** will turn all selections OFF. **MEMORY E** will turn all selections ON.

RESET OUTPUT ZONES

Selects the zones to trigger the Reset output.

PROGRAMMING SEQUENCE:

P54E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone will not trigger the Reset output [Zone No] ON: The zone will trigger the Reset output

P55E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

all ON: All zones trigger Strobe output.

NOTES

• **0E** will turn all selections OFF. **MEMORY E** will turn all selections ON.

STROBE OUTPUT ZONES

Selects the zones to trigger the Strobe output.

PROGRAMMING SEQUENCE:

P55E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone will not trigger the Strobe output [Zone No] ON: The zone will trigger the Strobe output

P56E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All ON: All zones sound the Keypad Sonalert.

NOTES

• **0E** will turn all selections OFF. **MEMORY E** will turn all selections ON.

KEYPAD SONALERT ZONES

Selects the zones which will sound the Keypad Sonalert (beeper).

PROGRAMMING SEQUENCE:

P56E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone will not trigger the Keypad Sonalert [Zone No] ON: The zone will trigger the Keypad Sonalert

P57

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All ON: All zones trigger Siren output.

NOTES

• 0E will turn all selections OFF MEMORY E will turn all selections ON

SIREN OUTPUT ZONES

Selects the zones to trigger the Siren output.

PROGRAMMING SEQUENCE:

P57E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone will not trigger the Siren output [Zone No] ON: The zone will trigger the Siren output

P58E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All OFF: No zones trigger AUX 1 or 3

• 0E will turn all selections OFF.

MEMORY E will turn all selections ON.

RELATED OPTIONS

P121E 5E-8E Day zone output mapping.

AUX1,3 OUTPUT ZONES

Selects the zones to trigger the AUX1 or AUX3 outputs. This option selects which zones trigger AUX1 or 3.

Use P121E 1E and/or P123E 1E to enable the ouput.

Once turned on by a zone alarm, the output will remain on until the panel is reset/disarmed.

PROGRAMMING SEQUENCE:

P58E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone will not trigger AUX1,3 output/s [Zone No] ON: The zone will trigger the AUX1,3 output/s

P59E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All OFF: No zones trigger AUX 2 or 4

• 0E will turn all selections OFF.

MEMORY E will turn all selections ON.

AUX2,4 OUTPUT ZONES

Selects the zones to trigger the AUX2 or AUX4 outputs. This option selects which zones trigger AUX2 or 4.

Use P122E 1E and/or P124E 1E to enable the ouput.

Once turned on by a zone alarm, the output will remain on until the panel is reset/disarmed.

PROGRAMMING SEQUENCE:

P59E [Zone No]E toggles the options ON and OFF

[Zone No] OFF: The zone will not trigger the AUX2,4 output/s [Zone No] ON: The zone will trigger the AUX2,4 output/s

Option	No.	Description	Default
P60E	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

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

Entry Beeps ON.

RELATED OPTIONS

P69E 7E Arm Exit Beeps. P69E 8E Home Exit Beeps.

P60E 2E, 3E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

No keyswitch enabled.

P60E 2E, 3E off.

NOTES

The keyswitch:

a/ Always Arms Area1 only.

b/ Does not arm Area2.

- c/ Can disarm Area2 if option P120E 8E is enabled.
- The keyswitch input will only operate if the EOL resistor value of 2k2 is selected for zone inputs. See P129E, page 68.

RELATED OPTIONS

P120E 1E Latched Keyswitch.

P120E 4E Keyswitch Disarms only.

P120E 5E Keyswitch Arms only.

P120E 8E Keyswitch disarm Area2.

P129E EOL Resistor value

ENTRY BEEPS

The sonalert will beep during Entry Delay.

PROGRAMMING SEQUENCE:

P60E 1E toggles the option ON and OFF

OFF: Entry Beeps OFF ON: Entry Beeps ON

KEYSWITCH OPERATION

An externally fitted, normally open momentary Keyswitch can be used to Arm, Disarm or arm the Home mode.

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).

PROGRAMMING SEQUENCE:

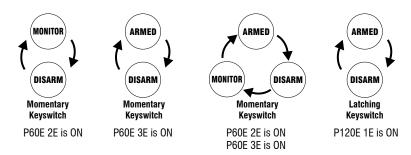
P60E 2E or 3E toggles the option ON and OFF

2E & 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 & 3E ON: Keyswitch cycles between Arm, Home and Disarm.



KEYSWITCH WIRING

If P60E 2E or 3E are enabled, use a momentary action keyswitch with normally open contacts. A momentary closed circuit across the resistor will toggle panels modes. Open circuit the resistor to trigger Panic if required. (Panic on this input is disabled if P120E 1E is enabled).

If P120E 1E is enabled, use a latching keyswitch. When the resistor is sealed, panel is disarmed. If the resistor is unsealed, (either by open circuit or short circuit), the panel will arm Area1, (Area2 will be ignored).



KEYSWITCH WIRING.

A momentary or latching keyswitch can be wired as shown.

P60E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON Tamper Reset Lockout enabled.

RELATED OPTIONS

P44E Lockout zones.

TAMPER SIREN LOCKOUT This option programs the Tamper

This option programs the Tamper input to Lockout, i.e. cause the Siren & Reset outputs to sound only once while the panel is armed.

PROGRAMMING SEQUENCE:

P60E 4E toggles the option ON and OFF

OFF: Tamper Reset Lockout disabled ON: Tamper Reset Lockout enabled

P60E 5E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF No Reset output on Duress alarm.

RELATED OPTIONS

P75E 1E Enable reporting of Duress.

DURESS TO RESET OUTPUT

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.

PROGRAMMING SEQUENCE:

P60E 5E toggles the option ON and OFF

OFF: No Reset output on Duress alarm ON: Duress alarm triggers Reset output

P60E 6E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON Auto Exclude enabled.

RELATED OPTIONS

P62E 7E Siren burst on Auto Exclude.

AUTO EXCLUDE ZONES

If a zone is unsealed at the end of Exit Time the panel can either Exclude (ignore) that zone or immediately alarm.

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.

PROGRAMMING SEQUENCE:

P60E 6E toggles the option ON and OFF

OFF: Auto Exclude disabled (instant alarm if unsealed at end of Exit Time)
ON: Auto Exclude enabled (zone is excluded if unsealed at end of Exit Time)

P60E 7E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Display is always ON.

NOTES

• 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.

NAVIGATOR KEYPAD: The touch screen display will go blank. Touch to restore.

DISABLE THE DISPLAY

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).

PROGRAMMING SEQUENCE:

P60E 7E toggles the option ON and OFF

OFF: Display is always on

ON: Display will blank after 4 minutes

P60E 8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: AUX3 & AUX4 outputs are instant.

RELATED OPTIONS

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.

DELAYED AUX3 & AUX4 OUTPUTS

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).

PROGRAMMING SEQUENCE:

P60E 8E toggles the option ON and OFF

OFF: AUX3 & AUX4 outputs turn on instantly, (Default).
ON: AUX3 & AUX4 outputs turn on at the end of exit time.

Option I	No.	Description	Default
P61E	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

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

1E–4E, ON: Tamper alarm triggers all outputs.

NOTES

 A Tamper Alarm can be caused by the TAMP input or by removing the the J1 PROG/TAMP link on the main board.

TAMPER ALARM / OUTPUT MAPPING

This option selects which outputs will trigger when a Tamper Alarm occurs.

PROGRAMMING SEQUENCE:

P61E 1E-4E toggles the options ON and OFF

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

P61E 5E-8E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

5E–8E, ON: Panic alarm triggers all outputs.

NOTES

 A Keypad Panic Alarm can be caused by the PANIC keys on the keypad (* E or ** together, depending on Option P126E1E).

KEYPAD PANIC ALARM / OUTPUT MAPPING

This option selects which outputs will trigger when a Keypad Panic alarm occurs.

PROGRAMMING SEQUENCE:

P61E 5E-8E toggles the options ON and OFF

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

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

P62E 1E-6E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

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.

RELATED OPTIONS

P64E 6E STD LCD keypad double key

P126E 1E, 2E, 3E KPX keypad double key keypad functions.

NOTES

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.

P62E 7E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Siren burst on Auto Exclude enabled.

RELATED OPTIONS

P60E 6E Auto Exclude zones.

P62E 8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Exit Time x10 disabled.

RELATED OPTIONS

P28E Exit Time.

SYSTEM OPERATION SHORTCUTS

Some keypad operations can be programmed to operate with or without a User Code.

PROGRAMMING SEQUENCE:

P62E 1E-6E toggles the options ON and OFF

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

OPERATING EXAMPLES:

Arming without shortcut: (ARM) [User Code] (E)

Arming with shortcut: (ARM) (E)

Keypad Panic without shortcut: * [User Code] E

Keypad Panic with shortcut: (*) (E)

NOTE: * [User Code] E always triggers Keypad Panic.

KPX LCD KEYPAD, see option P64E 6E to enable Double Key Panic.

STD LCD KEYPAD, see option P126E 1E to enable Double Key Panic.

SIREN BURST ON AUTO EXCLUDE

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.

PROGRAMMING SEQUENCE:

P62E 7E toggles the option ON and OFF

OFF: Siren burst on Auto Exclude disabled ON: Siren burst on Auto Exclude enabled

EXIT TIME X10

This option multiplies the normal exit time by a factor of 10.

PROGRAMMING SEQUENCE:

P62E 8E toggles the option ON and OFF

OFF: Exit Time is the time set by P28E

ON: Exit Time is multiplied by 10

EXAMPLE: If P28E = 22 seconds then if P62E 8E is ON, the exit time

is $22 \times 10 = 220$ seconds.

Option	No.	Description	Default
P63E	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	ON
	6E	Day Mode to STROBE	OFF
	7E	Day Mode to keypad SONALERT	OFF
	8E	Day Mode to SIREN	OFF

P63E 1E-4E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

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

RELATED OPTIONS

P64E 1E Brief Home alarm.

HOME MODE OUTPUT MAPPING

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

PROGRAMMING SEQUENCE:

P63E 1E-4E toggles the options ON and OFF

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

DAY MODE OUTPUT MAPPING

P63E 5E-8E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

5E ON.

6E, 7E, 8E OFF.

RELATED OPTIONS

P64E 2E Brief Day alarm.

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

PROGRAMMING SEQUENCE:

P63E 5E-8E toggles the options ON and OFF

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

For ZONE TO OUTPUT MAPPING for armed & 24hr states - see options P54E - P59E, page 22-23.

Option	No.	Description	Default
P64E	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]	ON
	6E	Strobe Flash on Home arm by radio	OFF
	7E	[not used]	OFF
	8E	[not used]	OFF

P64E 1E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Brief Home Alarm disabled.

RELATED OPTIONS

P51E Set Home zones.

P63E 1E-4E Home Mode output

mapping

P64E 2E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Brief Day Alarm disabled.

RELATED OPTIONS

P53E Assign Day zones. P63E 5E-8E Day Mode output

mapping.

P64F 3F

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Home zones all have Entry Delay2.

RELATED OPTIONS

P27E Entry Delay Time 2. P51E Assign Home zones.

P63E 1E-4E Home Mode output

mapping.

P64E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No siren chirps.

RELATED OPTIONS

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.

BRIEF HOME MODE ALARM

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.

PROGRAMMING SEQUENCE:

P64E 1E toggles the option ON and OFF

OFF: Home Mode outputs have normal time as set by P29E ON: Home Mode outputs are ON for 2 seconds only

BRIEF DAY ALARM

Alarms in Day Mode will activate the programmed outputs while the zone is unsealed or they can activate the outputs for 2 seconds only.

This option also enables the TEMPORARY DAY ZONE feature. See page 20.

PROGRAMMING SEQUENCE:

P64E 2E toggles the option ON and OFF

OFF: Brief Day Alarm disabled. Day alarm outputs are ON while the zone is unsealed

ON: Brief Day Alarm Enabled. Day alarm outputs are ON for 2 seconds only

HOME ZONES ENTRY DELAY 2

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.

PROGRAMMING SEQUENCE:

P64E 3E toggles the option ON and OFF

OFF: Home zones behave as programmed by P40E-P43E

ON: Home zones all have Entry Delay 2

ARM/DISARM CHIRPS

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 *siren chirps*, the *strobe* output always flashes when arming/disarming by the above methods. (Home arming chirps are enabled separately by option P120E 2E).

The siren output will make 1 Chirp on Arming, and 3 Chirps on Disarming.

PROGRAMMING SEQUENCE:

P64E 4E toggles the option ON and OFF

OFF: No Arm/Disarm siren chirps

ON: Siren & Strobe outputs will chirp on arm/disarm

PROGRAMMING

P64E 6E

PROGRAM MODE LEVEL

Installer, Remote by PC.

FACTORY DEFAULT

OFF: No strobe.

NOTES

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.

RELATED OPTIONS

P69E 5E Home Mode arming by radio key

P120E 2E Siren Chirp on Home Arming by Radio

STROBE FLASH ON HOME ARMING BY RADIO

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.

PROGRAMMING SEQUENCE:

P64E 6E toggles the option ON and OFF

OFF: No strobe flash ON: Strobe flash enabled

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

P65E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

all OFF: No Supervision zones.

RELATED OPTIONS

P66E 1E-4E Supervision Alerts. P66E 5E Wired Zone Supervision. P67E Zone Supervision Time. P92E 4E (D8) Report Supervision. P75E 12E (D16) Report Supervision.

NOTES

0E will turn all selections OFF. **MEMORY E** will turn all selections ON.

If Radio Supervision is enabled, P66E 5E off, then the supervision feature cannot be used as an inactivity monitor.

SUPERVISED ZONES

Any zone 1-8 or 1-16 can be a Supervised Zone.

Supervision for HARDWIRED ZONES

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).

- A zone which is permanently in a sealed or unsealed state for the duration of Supervision Time will be treated as a Supervision alarm.
- If P66E 5E is on, Zone Supervision acts on wired zones. If P66E 5E is off, Zone Supervision acts on radio zones.
- Each Supervised zone has its own supervision timer.
- Zone Supervision is independent of the armed state of the panel.
- Zone Supervision can be temporarily disabled by Excluding the zone/s.
- The zone which caused the Supervision alarm flashes on the keypad. Entering a valid code + E will reset Supervision alarms.

Supervision for RADIO ZONES

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.

PROGRAMMING SEQUENCE:

P65E [Zone No]E toggles the options ON and OFF [Zone No]E OFF: The zone is not a Supervised Zone [Zone No]E ON: The zone is a Supervised Zone

Option	No.	Description	Default
P66E	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

P66E 1E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Supervision Reset output

disabled.

RELATED OPTIONS

P65E Supervised Zones.

P66E 2E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Supervision Strobe output

disabled.

RELATED OPTIONS

P65E Supervised Zones.

P66E 3E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Supervision Keypad Sonalert disabled

NOTES

• When this option is turned ON, it delays the operation of all other selected Supervision outputs by one minute.

RELATED OPTIONS

P65E Supervised Zones.

P66E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Supervision Siren output disabled.

RELATED OPTIONS

P65E Supervised Zones.

ZONE SUPERVISION ALERTS - RESET OUTPUT

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).

PROGRAMMING SEQUENCE:

P66E 1E toggles the option ON and OFF

OFF: Supervision Reset output disabled ON: Supervision Reset output enabled

ZONE SUPERVISION ALERTS - STROBE OUTPUT

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.

PROGRAMMING SEQUENCE:

P66E 2E toggles the option ON and OFF

OFF: Supervision Strobe output disabled ON: Supervision Strobe output enabled

ZONE SUPERVISION ALERTS - KEYPAD SONALERT

Setting this option turns the Keypad Sonalert ON when a SUPERVISED ZONE alert occurs. The Keypad Sonalert remains ON until *any* keypad key is pressed.

Also, turning this option ON makes all Supervision outputs delayed by one minute.

PROGRAMMING SEQUENCE:

P66E 3E toggles the option ON and OFF

OFF: Supervision Keypad Sonalert disabled and all Supervision outputs trigger instantly

ON: Supervision Keypad Sonalert enabled and all Supervision outputs are delayed by 1 minute

ZONE SUPERVISION ALERTS – SIREN OUTPUT

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).

PROGRAMMING SEQUENCE:

P66E 4E toggles the option ON and OFF

OFF: Supervision Siren output disabled ON: Supervision Siren output enabled

P66E 5E

THIS OPTION IS AVAILABLE IN D8X/D16X V5.2 AND LATER

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Radio Zone Supervision enabled.

RELATED OPTIONS

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.

ENABLE WIRED ZONE SUPERVISION

This option enables Wired Zone Supervision or Radio Zone Supervision.

PROGRAMMING SEQUENCE:

P66E 5E toggles the option ON and OFF

OFF: Radio Zone Supervision enabled

ON: Wired Zone Supervision enabled

P66E 7E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Supervision Time normal.

RELATED OPTIONS

P67E Supervision Time.

P66E 8E Supervision Time speedup

x10.

SUPERVISION TIME SPEEDUP X6

Setting this option speeds 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).

PROGRAMMING SEQUENCE:

P66E 7E toggles the option ON and OFF

OFF: Supervision Time normal as set by P67E

ON: Supervision Time speedup x6

P66E 8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Supervision Time normal.

RELATED OPTIONS

P67E Supervision Time.

P66E 7E Supervision Time speedup

х6.

SUPERVISION TIME SPEEDUP X10

Setting this option speeds 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).

PROGRAMMING SEQUENCE:

P66E 8E toggles the option ON and OFF

OFF: Supervision Time normal as set by P67E

ON: Supervision Time speedup x10

NOTE: If both 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).

P67E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

24 hours or 24 minutes.

NOTES

- Supervision time for wired or wireless zones must be 2 minutes or greater for correct operation.
- A setting of less than 3 hours for radio supervision is not recommended.
- The Supervision timer is reset on exit from Installer Program Mode and on Arm or Disarm.

RELATED OPTIONS

P65E Supervised Zones.

P66E 1E-4E Supervision Alerts.

P66E 7E-8E Supervision Time Speed-up.

SUPERVISION TIME

SUPERVISION TIME sets the time interval before an inactive Supervised Zone triggers a Supervision alarm.

The SUPERVISION TIME setting is from 01 to 24 hours.

For timing up to 24 minutes, set P66E 7E & 8E on.

For timing up to 24 hours, set P66E 7E & 8E off.

PROGRAMMING SEQUENCE:

P67E existing time is displayed one digit at a time

[ENTER NEW TIME] E new time is displayed one digit at a time

EXAMPLE: To program SUPERVISION TIME to be 4 hours:

P67E 04E

Option	No.	Description	Default
P68E	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

P68E 1E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

OFF: Single Press Radio Panic.

DOUBLE PRESS RADIO PANIC

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.

OPERATION. 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.

This requirement meets regulations in some states of Australia.

PROGRAMMING SEQUENCE:

P68E 1E toggles the option ON and OFF

OFF: Single Press Radio Panic ON: Double Press Radio Panic

P68E 2E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Auto Re-Arm disabled.

NOTES

- 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.
- Auto re-arm operates independently on both Areas 1 and 2.

RELATED OPTIONS

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.

AUTO RE-ARM

Auto Re-Arm checks that you have entered the premises after disarming.

After disarming, the panel will wait for the same time 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.

PROGRAMMING SEQUENCE:

P68E 2E toggles the option ON and OFF

OFF: Auto Re-Arm disabled ON: Auto Re-Arm enabled

P68E 3E

Available in D8x/D16x V5.6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Long Radio Message.

NOTE

Older detectors and radio keys without encryption will not work with this setting on.

LONG RADIO MESSAGE

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.

PROGRAMMING SEQUENCE:

P68E 3E toggles the option ON and OFF

OFF: Normal Radio Message ON: Long Radio Message

P68E 4E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: OK/READY ignores delay zones.

"OK/READY" DISPLAY OPTION

When the option of 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.

When this option is ON, all zones including Entry Delay zones must be sealed for the keypad/s to display the OK/READY icon.

PROGRAMMING SEQUENCE:

P68E 4E toggles the option ON and OFF

OFF: OK/READY ignores delay zones (default)

ON: OK/READY senses all zones

P68E 5E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Radio Key siren warning disabled.

NOTES

Unsealed zone warning is inactive if P64E 4E Arm/Disarm Chirps is enabled regardless of the status of P68E 5E.

RADIO KEY ARMING, UNSEALED ZONE WARNING

Setting this option ON allows a 2 second SIREN warning if there is an unsealed zone in an Area Armed by a Radio Key.

PROGRAMMING SEQUENCE:

P68E 5E toggles the option ON and OFF

OFF: Radio Key arming, siren warning disabled ON: Radio Key arming, siren warning enabled

P68E 6E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No 24hr Fire siren sound.

24HR ZONE FIRE SIREN SOUND

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.

PROGRAMMING SEQUENCE:

P68E 6E toggles the option ON and OFF

OFF: Fire siren sound disabled ON: Fire siren sound enabled

P68E 7E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Strobe Flash on very ARM signal.

SINGLE SHOT STROBE ON ARMING

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 very 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.

When this option is ON the strobe will flash only when the panel arms. Any subsequent ARM signals will be ignored.

PROGRAMMING SEQUENCE:

P68E 7E toggles the option ON and OFF

OFF: Strobe flashes on every ARM signal

ON: Single Shot Strobe flashes only on panel Arming

P68E 8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Quiet Chirps disabled.

RELATED OPTIONS

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

QUIET CHIRPS ON ARM/DISARM

This quietens 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).

PROGRAMMING SEQUENCE:

P68E 8E toggles the option ON and OFF

OFF: Quiet Chirps disabled ON: Quiet Chirps enabled

Option No.		Description	Default
P69E	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

P69E 1E

PROGRAM MODE LEVEL
Installer mode or NessComms.

FACTORY DEFAULT OFF

RELATED OPTIONS

P64E 8E Enable medical alarm.

P69E 3E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Normal siren sound in Home

Mode.

This does not affect the RESET output.

P69E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Keypad gives 3 beeps on Arming.

NOTES

The keypad beeps on Arm/Disarm when Arming/Disarming by keypad, keyswitch or by Radio Key.

FLASH STROBE ON MEDICAL ALARM

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.

PROGRAMMING SEQUENCE:

P69E 3E toggles the option ON and OFF

OFF: Strobe does not flash on medical alarm ON: Strobe flashes on medical alarm

QUIET HOME SIREN

This option selects the 'Quiet Siren' sound in Home Mode. The Quiet Siren sound is a continuous "beep beep" sound rather than the normal siren sound.

PROGRAMMING SEQUENCE:

P69E 3E toggles the option ON and OFF

OFF: Normal siren sound in Home Mode ON: Quiet Siren sound in Home Mode

6 BEEPS ON ARMING

Normally the keypad/s onboard SONALERT gives 3 beeps when the panel is armed. Turning this option ON will give 6 keypad beeps when Arming.

PROGRAMMING SEQUENCE:

P69E 4E toggles the option ON and OFF

OFF: Keypad gives 3 beeps on Arming ON: Keypad gives 6 beeps on Arming

P69E 5E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Radio Keys cannot Arm Home Mode.

NOTES

- Radio Key Home Arming will work only if one or more zones have been programmed as Home Zones (P51E).
- 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.

RELATED OPTIONS

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.

HOME ARMING BY RADIO KEY ON/OFF BUTTONS

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.

PROGRAMMING SEQUENCE:

P69E 5E toggles the option ON and OFF

OFF: Radio Key Home Mode Arming disabled ON: Radio Key Home Mode Arming enabled

OPERATION:

- Press the Radio Key OFF button twice within 4 seconds.
- or.... Press the Radio Key ON button twice within 5 seconds.

See page 20 for Home operation.

P69E 6E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Mains Fail alarm normal.

NOTES

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.

DISABLE MAINS FAIL ALARM

When set ON, a Mains Fail alarm is: 1. Not displayed on the keypad, 2. Does not give warning beeps, 3. Is not saved to MEMORY and the MEMORY display does not flash.

PROGRAMMING SEQUENCE:

P69E 6E toggles the option ON and OFF

OFF: Mains Fail alarm operates normally ON: Mains Fail alarm is disabled

P69E 7E

Available in D8x/D16x V5.7 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

Exit Beeps OFF.

RELATED OPTIONS

P28E Exit Delay Time.

BEEPS DURING EXIT DELAY - FULLY ARMED MODE

This option gives an audible warning during Exit Delay.

The sonalert 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.

PROGRAMMING SEQUENCE:

P69E 7E toggles the option ON and OFF

OFF: Exit Beeps OFF ON: Exit Beeps ON

P69E 8E

Available in D8x/D16x V5.7 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

Home Exit Beeps OFF.

RELATED OPTIONS

P28E Exit Delay Time.

BEEPS DURING EXIT DELAY - HOME MODE

This option gives an audible warning during Exit Delay.

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.

PROGRAMMING SEQUENCE:

P69E 8E toggles the option ON and OFF

OFF: Home Exit Beeps OFF ON: Home Exit Beeps ON

NOTES:

- 1. Exit beeps cannot be stopped (i.e. by pressing a key on the keypad).
- 2. If another event causes a different keypad beep, the exit beeps resume once the event beeps are finished.

Option No.	Description	Default

FOLLOW-ME TELEPHONE NUMBER - For audible dialling	
TELEPHONE NUMBER 1 - PRIMARY	
TELEPHONE NUMBER 2 - SECONDARY	
TELEPHONE NUMBER 3 - TEST CALLS	
TELEPHONE NUMBER 4 - CALLBACK FOR UPLOAD	
ACCOUNT NUMBER 1	0000
ACCOUNT NUMBER 2	0000
	TELEPHONE NUMBER 1 - PRIMARY TELEPHONE NUMBER 2 - SECONDARY TELEPHONE NUMBER 3 - TEST CALLS TELEPHONE NUMBER 4 - CALLBACK FOR UPLOAD ACCOUNT NUMBER 1

P00E

PROGRAM MODE LEVEL

User, Installer mode or NessComms.

FACTORY DEFAULT

No telephone numbers.

NOTES

• If the Follow Me telephone number is disabled, all audible format calls are made on telephone numbers 1 & 2.

RELATED OPTIONS

P86E 2E Contact ID format (Back to base monitoring). P86E 4E Audible format. P86E 6E Contact ID + Audible Pulse.

FOLLOW ME TELEPHONE NUMBER

The Follow Me telephone number is only used in Audible Dialling mode. (If P86E 4E or 6E are on).

The Follow Me telephone number can be programmed in User Program Mode. If the Follow Me number is programmed, then the primary & secondary numbers are ignored.

IF P86E 4E IS ENABLED (AUDIBLE MONITORING)

In this case, if the Follow Me number is programmed, the primary & secondary numbers are ignored.

IF P86E 6E IS ENABLED (CONTACT ID + AUDIBLE)

The telephone numbers programmed at P70E & P71E will be used to send the mesage to the central station. The message is also repeated in audible format to the telephone number (if any) programmed at P00E.

PROGRAMMING SEQUENCE:

P00E existing telephone number is displayed one digit at a time [ENTER NEW TELEPHONE No] E new telephone number is displayed one digit at a time

P70E, P71E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

No telephone numbers.

NOTES

- If telephone number 2 is disabled, all calls are made on telephone number 1 and the setting of P87E 1E has no effect.
- If telephone number 3 is disabled, all test calls are made on telephone number 1&2
- Any keypress will stop the telephone number display sequence.

RELATED OPTIONS

P87E 1E Alternate Primary/Secondary telephone numbers.

P86E 1E Disable dialler (still allows remote up/download if programmed).

TELEPHONE NUMBERS 1 & 2

The panel can dial up to 2 phone numbers when an event is to be transmitted to a central monitoring station or other location. Telephone numbers may be up to 30 digits in length.

PROGRAMMING SEQUENCE:

P70E existing telephone number is displayed one digit at a time

[ENTER NEW TELEPHONE No] E new telephone number is displayed one digit at a time

EXAMPLE: To program Telephone No.1 to be 03 1234 1234:

P 70 E 0312341234 E

TO CLEAR A TELEPHONE NUMBER

To clear a telephone number, enter the MEMORY key in place of the telephone number. Example, to clear a Telephone Number 1 press: P70E MEMORY E

SPECIAL CHARACTERS (Applies to all telephone Numbers)

If required, pauses, \star (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

P72E, P73E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

P72E Account No.1: 0000 P73E Account No.2: 0000

RELATED OPTIONS

P79E Account No.2 zones

ACCOUNT NUMBER 1 & 2

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. Tampers, Mains Fail) will report on Account No. 1.

PROGRAMMING SEQUENCE:

P72E (or P73E) existing account number is displayed one digit at a time

[ENTER NEW ACCOUNT No] E new account number is displayed one digit at a time

EXAMPLE: To program Account No.1 to be 1239:

P72E1239E

NOTES

Note 1: If using the Ness LED keypad for programming, the Hex digits will not be displayed but are still programmed.

Note 2: Hex digit A is not allowed.

Note 3: Entering Hex digits by keypad applies to D8/D16 V4.6 and later or previous versions by using NessComms download software V4.62 or later.

HEX ACCOUNT NUMBERS

Dialler client codes can now 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.

HEX DIGIT	KEY ENTRY	DISPLAYED ON LCD DISPLAY
В	* Key	11
С	ARM Key	12
D	HOME Key	13
E	EXCLUDE Key	14
F	MEMORY key	15

P80E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

No telephone numbers.

RELATED OPTIONS

P89E 1E Enable test calls. P83E Test call interval. P84E Test call start delay.

TELEPHONE NUMBER 3 - TEST CALLS

Phone Number 3 is used to send Test Calls. If it is not programmed then Test Calls are sent using Telephone No 1 & 2.

PROGRAMMING SEQUENCE:

P80E existing telephone number is displayed one digit at a time

[ENTER NEW TELEPHONE No] E new telephone number is displayed one digit at a time

EXAMPLE: To program Telephone No.3 to be 03 2468 1234:

P80E0324681234E

P81E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

No telephone numbers.

RELATED OPTIONS

P90E 8E Enable Callback.

TELEPHONE NUMBER 4 – CALLBACK

Phone Number 4 is used to prevent unauthorised up/download.

The panel will dial the callback telephone number to commence a NessComms™ up/download session.

NessComms™ up/download without callback is allowed by turning off option P90E 8E.

PROGRAMMING SEQUENCE:

P81E existing telephone number is displayed

[ENTER NEW TELEPHONE No] E new Telephone No.4 is displayed one digit at a time

		ZONES 1-8 (D8 & D16)			ZONES 9-16 (D16)												
Option No.	Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P74E	REPORT ZONE ALARMS	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
P76E	REPORT ZONE RESTORALS	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																

P74E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All zones report Alarms.

NOTES

• 0E will turn all selections OFF. MEMORY E will turn all selections ON.

REPORT ZONE ALARMS

This option selects which zone inputs will send Alarm reports to the Central Station.

PROGRAMMING SEQUENCE:

P74E [Zone No]E toggles the option ON and OFF

[Zone No]E OFF: Alarm reporting disabled for that zone [Zone No]E ON: Alarm reporting enabled for that zone

P76E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All zones report Restorals.

NOTES

• 0E will turn all selections OFF
 MEMORY E will turn all selections ON

RELATED OPTIONS

P82E 1E Send Restoral immediately. P82E 2E Send Restoral after siren time. P82E 3E Send Restoral on Disarm & seal.

P82E 4E Send Restoral on Disarm always.

REPORT ZONE RESTORALS

This option selects which zone inputs will send Restoral reports to the Central Station. Only zones that have previously sent an Alarm will send a Restoral.

PROGRAMMING SEQUENCE:

P76E [Zone No]E toggles the option ON and OFF

[Zone No]E OFF: Restoral reporting disabled for that zone [Zone No]E ON: Restoral reporting enabled for that zone

P78E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

No zones report Multiple Alarms.

NOTES

- Only zones that have previously sent an Alarm will send a Restoral.
- 0E will turn all selections OFF MEMORY E will turn all selections ON

RELATED OPTIONS

P89E 4E Swinger shutdown.

REPORT MULTIPLE ZONE ALARMS

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.

Zones not selected report only once, until reset by an opening or a valid code.

PROGRAMMING SEQUENCE:

P78E [Zone No]E toggles the option ON and OFF

[Zone No]E OFF: Multiple Zone Alarms disabled for that zone [Zone No]E ON: Multiple Zone Alarms enabled for that zone

P79E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

none

ACCOUNT NO.2 ZONES

Zones selected to be Account No.2 zones will report their Alarms, Restorals and Excludes on Client code 2.

PROGRAMMING SEQUENCE:

P79E [Zone No]E toggles the option ON and OFF

P75E, P92E

REPORT MISCELLANEOUS ALARMS

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

see table

see table

NOTES

• 0E will turn all selections OFF MEMORY E will turn all selections ON

P77E, P93E

REPORT MISCELLANEOUS
RESTORALS
PROGRAM MODE LEVEL
Installer mode or NessComms.
FACTORY DEFAULT

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

REPORT MISCELLANEOUS ALARMS REPORT MISCELLANEOUS RESTORALS

These options select which Miscellaneous alarms will trigger the dialler to send Alarm reports and Restoral reports to the Central Station.

Alarms (if enabled) are sent on activation. Restorals (if enabled) are sent on Opening. Mains Fail and Low Battery Restorals are sent when the power has been restored.

Note the different program option numbers for the D8 and D16.

PROGRAMMING SEQUENCE:

PxxE

1E-8E or 1E-16E toggles the option ON and OFF

Option No.		Description	Detault
P82E	1E	E Send RESTORAL report immediately	
	2E	Send RESTORAL after siren time	OFF
	3E	Send RESTORAL after Disarm & seal	
	4E Send RESTORAL after Disarm always		ON

P82E 1E-4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

4E, ON: Always send Restoral on Disarm.

RELATED OPTIONS

P76E Report zone restorals.

RESTORAL REPORTING OPTIONS

This option selects when the dialler sends zone Restoral reports. Only one of the following options may be selected.

Restoral reporting options also apply to 24hr zones.

PROGRAMMING SEQUENCE:

P82E 1E-4E toggles the option ON and OFF

1E ON: Send Restoral immediately

2E ON: Send Restoral after siren time

3E ON: Send Restoral on Disarm & seal

4E ON: Send Restoral on Disarm always

D - f - . . lu

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

P83E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

84 (= 168 hrs = 7 days).

NOTES

• Enter a value from 1 to 99.

RELATED OPTIONS

P89E 1E Enable Test Calls.
P84E Time Before Next Test Call.

P84E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

6 (= 12 hrs).

NOTES

- 1. Enter a value from 1 to 99.
- 2. If Test Calls are to start immediately, then the value is set to 0.
- 3. The Time Before Next Test Call is constantly updated. When viewed, the current value will be displayed (not the initially entered value).

RELATED OPTIONS

P89E 1E, Enable Test Calls. P83E, Test Call interval.

INSTALLER'S TIP

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.

TEST CALL INTERVAL

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).

Test Calls must be enabled by option P89E 1E.

PROGRAMMING SEQUENCE:

Press P83E (The existing Test Call Interval time will be displayed.)
Press [NEW TIME] E (The new Test Call Interval time will be displayed.)
EXAMPLE: To program daily test calls.

Press P83E12E

TIME BEFORE NEXT TEST CALL

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).

EXAMPLES:

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 ($4 \times 2 = 8$ hrs. Therefore 5pm + 8hrs = 1am).

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 ($4 \times 2 = 8$ hrs. Therefore 6pm + 8hrs = 2am).

PROGRAMMING SEQUENCE:

Press P84E (The existing Time Before Next test call will be displayed. See note 3) Press [NEW TIME] E (The new Time Before Next test call will be displayed)

PROGRAMMING

Option No.		Description	Default
P86E	1E	Disable Dialler	OFF
	2E	CONTACT ID FORMAT	ON
	3E	[not used]	OFF
	4E	Audible VOICE Format	OFF
	5E	[not used]	OFF
	6E	Contact ID + VOICE Format	OFF

P86E 1E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

Off: dialler enabled.

NOTES

This option is useful for temporary disabling of the dialler without affecting other dialler options.

P86E 2E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Contact ID format enabled.

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:

SSSS	Account Number
Q	Event qualifier
	1=New Event or Open 3=Restore or Close
XYZ	Alarm type
GG	Group or Area designation
ССС	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)

DISABLE DIALLER

This option disables the dialler even if telephone numbers and other dialler options are programmed.

Up/download or remote telephone access remain enabled.

PROGRAMMING SEQUENCE:

P86E 1E turns the option ON

ON: Dialler disabled

CONTACT ID FORMAT

This option enables the reporting of alarms to a Central station via telephone numbers 1 & 2 using Contact ID format.

PROGRAMMING SEQUENCE:

P86E 2E turns the option ON

ON: Contact ID format enabled

CONTACT ID REPORTS TABLE

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

SPECIAL ARMING/DISARMING REPORTS BY USER

REPORT NAME	User ID
Arm/Disarm by Keyswitch	57
Shortcut Arm	58
Arm/Disarm by AutoTimer 1	91
Arm/Disarm by AutoTimer 2	92
Arm/Disarm by AutoTimer 3	93

REPORT NAME	User ID
Arm/Disarm by AutoTimer 4	94
Arm/Disarm by AutoTimer 5	95
Arm/Disarm by AutoTimer 6	96
Arm/Disarm by AutoTimer 7	97
Arm/Disarm by AutoTimer 8	98

PROGRAMMING

P86E 4E

PROGRAM MODE LEVEL
Installer mode or NessComms.

FACTORY DEFAULT OFF.

NOTES

See page 83 for more detail.

AUDIBLE VOICE FORMAT

For Audible Monitoring to any telephone or mobile phone. Zone alarms are sent in Audible VOICE format.

The message is repeated for 45 seconds or until kissed-off by the receiving telephone.

PROGRAMMING SEQUENCE:

P86E 4E *turns the option ON* ON: Audible VOICE format enabled

P86E 6E

PROGRAM MODE LEVEL Installer mode or NessComms. FACTORY DEFAULT OFF.

CONTACT ID + AUDIBLE VOICE FORMAT

For simultaneous Central Station and Audible Monitoring.

The alarm message will be sent to the Central Station on the Primary telephone number and then in audible VOICE format to the Follow Me telephone number, (P00E).

PROGRAMMING SEQUENCE:

P86E 6E *turns the option ON*ON: Contact ID + Audible VOICE format enabled

Option No.		No. Description			
P87E	1E	Split dial Primary/Secondary numbers	OFF		
	2E	Check for Dial Tone	ON		
	3E	[not used]	OFF		
	4E	4 Dialling attempts	ON		
	5E	Reduce tone output when dialling telephone number	OFF		
	6E	Reduce tone output when sending alarm message	OFF		
	7E	Reduce tone output when connecting to modem	OFF		

P87E 1E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT OFF: Split Dial. RELATED OPTIONS

P87E 4E Number of Dialling attempts.

DOZE OF

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Dial only with dial tone.

P87E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: 4 dialling attempts.

NOTES

• Sets the total number of dialling attempts. E.g. If 4 dialling attempts is selected, this means 2 attempts per telephone number.

RELATED OPTIONS

P87E 1E Alternate dialling.

SPLIT DIAL PRIMARY/SECONDARY PHONE NUMBERS

This option selects the order in which Telephone numbers 1 & 2 are dialled.

PROGRAMMING SEQUENCE:

P87E 1E toggles the option ON and OFF

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.

ON: Alternate Dial. Dial Telephone No.1 on the first attempt. If no answer, dial Telephone No.2. Continue alternating until successful.

CHECK FOR DIAL TONE

The dialler can be programmed to check for a dial tone before dialling. The dialler will still dial out if a dial tone is not detected, but this means several seconds will have elapsed. Allows use on PABXs with non-standard dial tones.

PROGRAMMING SEQUENCE:

P87E 2E toggles the option ON and OFF

OFF: Dial without dial tone ON: Dial only with dial tone

NUMBER OF DIALLING ATTEMPTS

Sets the number of dialling attempts when sending reports.

OFF: sets a maximum 10 dial attempts before a 5 minute sleep and 10 more re-tries if unsuccessful.

ON: allows a maximum of 4 dial attempts before a 5 minute sleep and 4 more retries if unsuccessful.

If all attempts fail the dialler waits for the next trigger event. The previously unsuccessful report will be included in the new message.

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).

PROGRAMMING SEQUENCE:

P87E 4E toggles the option ON and OFF

OFF: Maximum 10 dialling attempts ON: Maximum 4 dialling attempts

P87E 5E, 6E, 7E

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

PSTN - REDUCE TONE LEVELS

This option allows PSTN tone levels to be reduced which may be required when the panel is using VOIP type phone lines.

PROGRAMMING SEQUENCE:

P87E 5E, 6E or 7E toggles the option ON and OFF

5E: Reduce tone output when dialling telephone number

6E: Reduce tone output when sending alarm message

7E: Reduce tone output when connecting to modem

Option No.		Description	Default
P88E	1E	Send AREA 1 OPEN/CLOSE REPORTS	OFF
	2E	Send AREA 2 Open/Close reports	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

P88E 1E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No AREA1 Open/Close reports.

AREA1 OPEN/CLOSE REPORTS

Enables or disables sending of AREA1 Open/Close reports.

The User ID of the code used is included in the report.

Keyswitch arming is identified as User 57. Shortcut arming is identified as User 58.

PROGRAMMING SEQUENCE:

P88E 1E toggles the option ON and OFF

OFF: No AREA1 Open/Close reports
ON: AREA1 Open/Close reports enabled

P88F 2F

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No AREA2 Open/Close.

AREA2 OPEN/CLOSE REPORTS

Enables or disables sending of AREA2 Open/Close reports.

PROGRAMMING SEQUENCE:

P88E 2E toggles the option ON and OFF

OFF: No AREA2 Open/Close reports

ON: AREA2 Open/Close reports enabled

P88E 3E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Siren Chirp on kiss-off.

RELATED OPTIONS

P88E 4E Flash Strobe on kiss-off.

SIREN CHIRP ON KISS-OFF

Selects a 2 Second Siren burst on a successful Closing report. This is used to give audible indication that the dialler has successfully sent the Arming report.

PROGRAMMING SEQUENCE:

P88E 3E toggles the option ON and OFF

OFF: No Siren Chirp on kiss-off ON: Siren Chirp on kiss-off enabled

P88E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Strobe Flash on kiss-off.

RELATED OPTIONS

P88E 3E Siren Chirp on kiss-off.

STROBE FLASH ON KISS-OFF

Selects a 2 Second Strobe on a successful Closing report. This is used to give visual indication that the dialler has successfully sent the Arming report.

PROGRAMMING SEQUENCE:

P88E 4E toggles the option ON and OFF

OFF: No Strobe Flash on kiss-off

ON: Strobe Flash on kiss-off enabled

P88E 5E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Forced opening Reports enabled **NOTES**

• 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.

FORCED OPENING REPORT

If Forced Opening Report is selected ON – 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.

PROGRAMMING SEQUENCE:

P88E 5E toggles the option ON and OFF

OFF: No Forced opening Reports
ON: Forced opening Reports enabled

P88E 6E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: Closing Reports sent on Arming.

RELATED OPTIONS

P88E 1E AREA1 Open/Close reports. P88E 2E AREA2 Open/Close reports.

DELAY CLOSING REPORT

If selected ON, Closing reports (if enabled) are sent at the end of Exit Time. Normally, Closing reports are sent immediately on arming.

PROGRAMMING SEQUENCE:

P88E 6E toggles the option ON and OFF

OFF: Closing Reports sent on Arming ON: Closing Reports sent at end of Exit Time

P88E 7E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Manual Exclude Reports enabled.

RELATED OPTIONS

P88E 8E Auto Exclude Reports.

MANUAL EXCLUDE REPORT

Enables Manual Exclude Reports for zones. Exclude Reports for 24hr zones are sent on exiting EXCLUDE mode.

PROGRAMMING SEQUENCE:

P88E 7E toggles the option ON and OFF

OFF: No Manual Exclude Reports
ON: Manual Exclude Reports enabled

P88E 8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Auto Exclude Reports enabled.

RELATED OPTIONS

P88E 7E Manual Exclude Reports.

AUTO EXCLUDE REPORT

Enables Auto Exclude Reports for Zones. Zones not sealed on arming will be reported as Auto Excluded..

PROGRAMMING SEQUENCE:

P88E 8E toggles the option ON and OFF

OFF: No Auto Exclude Reports
ON: Auto Exclude Reports enabled

Option No.		Description			
P89E	1E	ENABLE TEST CALLS	ON		
	2E Mains Report Delay (1 hour)		ON		
3E		Listen-In to Dialler	OFF		
	4E	Swinger shutdown	ON		
	5E	Line Fault Monitor	OFF		
	6E	[not used]	OFF		
7E		[not used]	OFF		
8E		[not used]	OFF		

P89E 1E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Test Calls enabled.

RELATED OPTIONS

P83E Test Call Interval.
P84E Time before next Test call.

P87E 4E Number Of Dialling Attempts.

ENABLE TEST CALLS This option enables the rep-

This option enables the reporting of dialler test calls to the Central station.

PROGRAMMING SEQUENCE:

P89E 1E toggles the option ON and OFF

OFF: No Test Calls
ON: Test Calls enabled

P89E 2E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Mains Fail report is delayed.

MAINS REPORT DELAY

This option 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.

PROGRAMMING SEQUENCE:

P89E 2E toggles the option ON and OFF

OFF: Mains Fail reports immediately ON: Mains Fail report is delayed by 1 hour

P89E 3E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Listen-In.

NOTES

Use METHOD 1 if you already have the panel box open and have a spare horn speaker on hand.

speaker on nand.

Use METHOD 2 if the box is closed and you need to quickly listen in to the dialler. Keep in mind that the dialler tones will be heard via any horn speaker/s connected to the Siren output.

LISTEN-IN TO DIALLER

This is a diagnostic feature to allow the installer to hear the dialler message and other telephone tones through a horn speaker.

There are 2 methods of listening to the dialler.

METHOD 1: Temporarily connect a horn speaker to the LISTEN pins on the main board. This method required no programming options to be set - the LISTEN pins are always active.

METHOD 2: This method requires option P89E 3E to be turned on. Listen-In is enabled for a minimum of 4 minutes after exiting Program Mode.

During Method 2 Listen-In, the dialler message and other telephone tones can be heard through the Siren output (at low volume) while the dialler is sending reports. The 4 minute period is restarted whenever any key on the keypad is pressed.

To turn Listen-In off, go back into Installer Program mode and toggle the option OFF.

PROGRAMMING SEQUENCE:

P89E 3E toggles the option ON and OFF

OFF: Method 2 Listen-In disabled ON: Method 2 Listen-In enabled

P89E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

ON: Swinger Shutdown enabled.

NOTES

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.

RELATED OPTIONS

P78E Report Multiple Zone Alarms.

SWINGER SHUTDOWN

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.

PROGRAMMING SEQUENCE:

P89E 4E toggles the option ON and OFF

OFF: Swinger Shutdown is 15 reports per zone ON: Swinger Shutdown is 3 reports per zone

P89F 5F

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Line Fault Monitor.

RELATED OPTIONS

P122E 5E Line Fault to AUX2.

LINE FAULT MONITOR

When this option is enabled, the telephone line is regularly tested. If the telephone line is not found, the Line light will commence flashing.

PROGRAMMING SEQUENCE:

P89E 5E toggles the option ON and OFF

OFF: No Line Fault Monitor
ON: Line Fault Monitor enabled

Option No.		Description	Default
P90E	1E	Enable Remote Access	OFF
	2E	Enable First Call Mode	OFF
3E		Enable Remote Arming	OFF
4E		Enable Remote Disarming	OFF
	5E	Enable Remote AUX control	OFF
	6E	Enable Remote Status reporting	OFF
	7E Enable Remote Event Report		OFF
	8E	Enable Callback Mode	OFF

P90E 1E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT
OFF: No Remote Access.
RELATED OPTIONS

P91E Required Rings.

REMOTE ACCESS

When selected on, this option allows the panel to be remotely upload/downloaded by a remote computer or controlled by a remote telephone.

When the option is Off, the panel will not answer incoming telephone calls, preventing any type of remote access while the panel is in normal Operating Mode.

WHEN THE PANEL IS IN INSTALLER PROGRAM MODE IT WILL ANSWER ALL INCOMING CALLS regardless of the P90E 1E setting.

PROGRAMMING SEQUENCE:

P90E 1E toggles the option ON and OFF

OFF: No Remote Access
ON: Remote Access enabled

P90E 2E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

OFF: Second Call Mode enabled.

NOTES

If Callback is enabled (P90E 8E is on), then First Call mode is disabled.

RELATED OPTIONS

P91E Required Rings.

ENABLE "FIRST CALL" MODE

For remote access the panel can answer incoming telephone calls on either the First or Second Call.

First Call Mode: The panel answers a telephone call after the number of rings set by P91E. Used if the panel has exclusive use of the the telephone line.

Second Call Mode: The panel answers on the second telephone call. The first telephone call must ring for at least the number of rings set by P91E. The second call to the panel must be made after a wait of between 10 and 50 seconds. Second Call mode is used to stop other equipment such as fax machines from answering the call.

PROGRAMMING SEQUENCE:

P90E 2E toggles the option ON and OFF

OFF: Second Call Mode enabled ON: First Call Mode enabled

P90E 3E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Remote Arming.

NOTES

• Remote Access must also be enabled.

RELATED OPTIONS

P90E 1E Enable Upload/Download. See page 85 for details on Remote Operation by telephone.

REMOTE ARMING

Allows the control panel to be armed remotely by telephone, using a standard DTMF telephone or mobile phone.

PROGRAMMING SEQUENCE:

P90E 3E toggles the option ON and OFF

OFF: No Remote Arming ON: Remote Arming enabled

P90E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Remote Disarming.

REMOTE DISARMING

Allows the control panel to be disarmed remotely by telephone, using a standard DTMF telephone or mobile phone.

PROGRAMMING SEQUENCE:

P90E 4E toggles the option ON and OFF

OFF: No Remote Disarming ON: Remote Disarming enabled

P90E 5E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Remote AUX control.

NOTES

This option must be on to globally enable remote control of the AUX outputs. See the options for AUX1-4 to individually enable each AUX output for remote control.

RELATED OPTIONS

P141E 5E Telephone control AUX1 P142E 5E Telephone control AUX2 P143E 5E Telephone control AUX3 P144E 5E Telephone control AUX4

REMOTE AUX CONTROL

Enables the remote turn ON/OFF of the AUX1, 2, 3 and 4 outputs using a standard DTMF telephone or mobile phone.

PROGRAMMING SEQUENCE:

P90E 5E toggles the option ON and OFF

OFF: No Remote AUX control ON: Remote AUX control enabled

P90E 6E

Available in D8x/D16x V5.6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Remote Status Reporting.

REMOTE STATUS AND ARMING

Enables Remote Status Reporting and Arming using NESSCOMMS™ software.

This option allows Remote Viewing of the current arming and alarm states and Remote Keypad Operation including arming & disarming.

Requires NessComms™ V5.2 and later.

PROGRAMMING SEQUENCE:

P90E 6E toggles the option ON and OFF

OFF: No Remote Status Reporting
ON: Remote Status Reporting enabled

P90E 7E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Remote Event Reporting.

NOTES

When this option is off, the NessComms Receive Events function will appear to download the event history from the panel, however the NessComms event display will (correctly) be blank.

REMOTE EVENT REPORTING

Enables Remote Event Reporting

PROGRAMMING SEQUENCE:

P90E 7E toggles the option ON and OFF

OFF: No Remote Status Reporting ON: Remote Status Reporting enabled

P90E 8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Callback.

RELATED OPTIONS

P90E 1E Enable Upload/Download. P81E Telephone Number 4, Callback.

CALLBACK MODE

Enables two methods of connecting by computer for remote upload/download.

NO CALLBACK – Allows remote access by computer as long as the panel's Account Number (P72E) is known. The panel answers on the 2nd incoming call.

WITH CALLBACK – The panel will answer the 2nd call, verify the caller, hang up and then make the Callback using Telephone Number 4.

PROGRAMMING SEQUENCE:

P90E 8E toggles the option ON and OFF

OFF: No Callback

ON: Callback Mode enabled

PROGRAMMING

P91

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

1

NOTES

- 'Double Ring' signals count as one ring. (Double rings are less than 1sec apart).
- The panel counts all types of ring signals as Rings, including Distinctive Rings.

RELATED OPTIONS

P90E 1E to 8E (Remote Access options).

Option No.	Description	Default	Note
P91E	REQUIRED RINGS TO ANSWER	1	1 to 24 rings

REQUIRED RINGS

Sets the number of rings before an incoming call is answered. This is used for remote access of the panel either by NessComms software or user operation by telephone.

Remote Access can work in First Call or Second Call modes, see option P90E 2E.

Programmable from 1 to 24 rings. Enter a value between 1 and 24.

INSTALLER'S TIP. Rings are counted in the panel as a ring signal followed by a period of silence. For instance, on the first ring the count is not registered until the second ring starts.

PROGRAMMING SEQUENCE:

P91E existing Required Rings value is displayed one digit at a time [ENTER NEW VALUE] E new Required Rings value is displayed one digit at a time

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

P94E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

no zones selected.

NOTES

Applies to zones 1-8 only (D8x and D16x)

NO MEMORY WARNING ZONES

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.

PROGRAMMING SEQUENCE:

P94E 1E-16E toggles the option ON and OFF

[Zone No]E OFF: Memory Warning operates normally for that zone [Zone No]E ON: Memory Warning is disabled for that zone

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

P95E	CLEAR RADIO DEVICES
P96E	CLEAR MEMORY
P97E	CLEAR PANEL OPTIONS (RESTORE FACTORY DEFAULTS)
P98E	CLEAR USER CODES
P99E	PROGRAM INSTALLER CODE

P95E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT [not applicable]

CLEAR RADIO DEVICES

This option clears all Radio Devices assigned to zones 1-8 or 1-16. (This option does not clear User Codes).

PROGRAMMING SEQUENCE:

P95E Clears Radio Device Codes

P96E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT [not applicable]

CLEAR MEMORY

Enter P96E when in Installer Program mode to clear all events in the Alarm memory display.

Note: This option clears only the 20 event memory as read by KPX and LCD keypads. Ness Navigator touch screen keypad's 80 event memory is not affected.

PROGRAMMING SEQUENCE:

P96E Clears Alarm Memory display

P97E

PROGRAM MODE LEVEL

Installer mode or NessComms

FACTORY DEFAULT

[not applicable]

NOTES

Note, this option will also delete Radio Devices programmed on zones.

CLEAR PANEL OPTIONS

This option restores 'panel' program options to their factory default values. Defaults all program options except User Codes and Radio Codes.

Note, this option will also delete Radio Devices programmed on zones.

PROGRAMMING SEQUENCE:

P97E Restores Factory Defaults

P98E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

User Code 1: 123 All other codes: [blank]

NOTES

• This option DOES NOT clear the Installer Code.

CLEAR USER CODES

This option clears all User Codes, (this means all Keypad Codes, Radio Keys and Access cards) and restores User Code 1 to the factory setting of 123.

P201E - P256E are defaulted (User Codes 1-56)

PROGRAMMING SEQUENCE:

P98E Clears User Codes

P99E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

000000

PROGRAM THE INSTALLER CODE

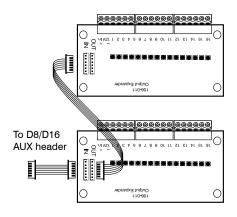
Programs the installer code. This code can be 3 to 6 digits long. Factory default installer code is 000000.

PROGRAMMING SEQUENCE:

P99E [Enter new code]E [Enter new code again]E (Unlike User Codes, the installer code is not displayed when programming)

> For a complete list of factory default values, see the Programming Options Summary on pages 86-91.

PROGRAMMING



Option No.		Description	Default
P117E	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

P117E 1E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Output Expander.

NOTES

 Connect up to two Output Expander boards.

ENABLE OUTPUT EXPANDER

Selecting this option enables the optional 106-011 Output Expander.

When this option is enabled, the AUX connector on the main board will only drive the Output Expander.

When this option is disabled, the AUX header is used for the 106-013 Four Relay Board.

PROGRAMMING SEQUENCE:

P117E 1E toggles the option ON and OFF

OFF: No Output Expander ON: Output Expander enabled

P117E 2E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT OFF

NOTES

- The second expander plugs into the second 6-way header on the first expander. The expander closest to the panel becomes Expander 1.
- 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:
 - A) 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.
 - B) Radio keypad auxiliary key. The radio keypad auxiliary key (there are 2 auxiliary keys) must be programmed to a User Code 13~15.
 - C) 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.

• 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.

EXPANDER OUTPUT FORMAT A, B, C

Use this option along with option P117E 5E to configure the output expander outputs as per the output tables.

Three different combinations of outputs are available for either a single or dual output expanders.

PROGRAMMING SEQUENCE:

P117E 2E toggles the option ON and OFF

	Output	Format A	Output F	Output Fo	ormat C		
	P117E	1E = ON 2E = OFF 5E = OFF	= OFF P117E 2E = ON P117E 2				
ОИТРИТ	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	ne 4 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	

P117E 3E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Day Zone Follower.

NOTES

• Day zone outputs are turned off when the panel is in Home or Area modes.

DAY ZONE FOLLOWER

This option allows Day zones to appear on the Zone Outputs.

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).

PROGRAMMING SEQUENCE:

P117E 3E toggles the option ON and OFF

OFF: No Day Zone Follower
ON: Day Zone Follower enabled

P117E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Output Exclude.

OUTPUT EXCLUDE

This 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.

PROGRAMMING SEQUENCE:

P117E 4E toggles the option ON and OFF

OFF: No Output Exclude ON: Output Exclude enabled

P117E 5E

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF

NOTES

If P117E 2E is ON, then P117E 5E is ignored

P117E 6E

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF

EXPANDER OUTPUT FORMAT C

Use this option along with option P117E 2E to configure the output expander outputs as per the output tables.

Three different combinations of outputs are available for either a single or dual output expanders.

PROGRAMMING SEQUENCE:

P117E 5E toggles the option ON and OFF

USER CODE TOGGLE OR PULSE

Selecting this option changes the User Code 13 to 15 operations to pulse on Radio Key AUX button.

This allows up to three users to remotely control separate access points such as garage doors.

Note that other actions set for the Radio Key AUX button are unchanged.

PROGRAMMING SEQUENCE:

P117E 6E toggles the option ON and OFF

		ZONES 1-8 (D8 & D16)					ZONES 9-16 (D16))				
Option No.	Description	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																

P118E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All OFF: No Output Expander zones.

NOTES

 Selecting a zone in both P118 & P119 options effectively gives pulsed outputs whenever that zone alarms.

OUTPUT EXPANDER ZONES

This selects the zones that will be output whenever the zone is unsealed. When the zone reseals the output automatically goes off.

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.

PROGRAMMING SEQUENCE:

P118E 1E-16E toggles the options ON and OFF

[Zone No]E OFF: Output Expander disabled for that zone [Zone No]E ON: Output Expander enabled for that zone

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF: No Output Expander zone latch.

OUTPUT EXPANDER ALARM ZONES

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.

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).

PROGRAMMING SEQUENCE:

P119E 1E-16E toggles the option ON and OFF

[Zone No]E OFF: Output Expander zone alarm disabled for that zone [Zone No]E ON: Output Expander zone alarm enabled for that zone

Option No.		Description	Default
P120E	1E	Latched keyswitch input	OFF
	2E	Siren Chirp on Home Arming by Radio	OFF
	3E	Radio Key AUX arms Home Monitor	OFF
	4E	Keyswitch ARM only	OFF
	5E	Keyswitch Disarm only	OFF
	6E	Smart Beep	OFF
	7E	Entry Delay Timer1 x10	OFF
	8E	Area2 Disarm by Keyswitch Allowed	OFF

PROGRAM MODE LEVEL

Installer mode or NessComms.

RELATED OPTIONS

P60E 2E, 3E Keyswitch options.

PROGRAMMING SEQUENCE:

P120E [1E-6E] Turns options on or off.

LATCHED KEYSWITCH

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 24.

NOTE: ENABLING LATCHED KEYSWITCH DISABLES ALL OTHER METHODS OF ARMING AND DISARMING (KEYPAD, RADIO KEY, CARD).

OFF: No Latched Keyswitch. (Factory default). ON: Latched Keyswitch enabled.

P120E 2E

NOTE. This option enables Radio Key Home Arming chirps regardless of the state of P64E 4E (Radio Key siren chirps).

RELATED OPTIONS

P64E 6E Strobe Flash on Home Arming by Radio.

SIREN CHIRP ON HOME ARMING BY RADIO

This option enables siren chirps when arming and disarming Home Mode with a Radio Key.

OFF: No Home Arm chirps. (Factory default). ON: Home Arm chirps enabled.

P120E 3E

NOTE

This option enables Radio Key Home Arming chirp's regardless of the state of P64E 4E (Radio Key siren chirps).

RELATED OPTIONS

P69E 5E Radio key Home arm by ON/OFF buttons.

P120E 4E

RELATED OPTIONS

P120E 1E Latched Keyswitch. P60E 2E, 3E Keyswitch options.

P120E 5E

RELATED OPTIONS

P120E 1E Latched Keyswitch. P60E 2E, 3E Keyswitch options.

P120E 6E

NOTES

- 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).
- Smart Beeps work in addition to any other outputs mapped to Home and Day alarms, as programmed by options P63E 1E–8E.
- Smart Beeps work in conjunction with any other Home and Day mode outputs, (as set by options P63E 1E-8E).

P120E 7E

Available in D8x/D16x V5.6 and later.

RELATED OPTIONS

P26E Entry Delay Time1.

P120E 8E

Available in D8x/D16x V5.6 and later. RELATED OPTIONS

P60E 2E, 3E. P120E 1E, 4E, 5E.

RADIO AUX BUTTON ARMS HOME MODE

This option enables the AUX button on a Ness RK4 Radio Key to arm Home Mode. When this option is enabled, options P122E 3E & 4E will be disabled, (AUX button to Aux2 options. See page 60).

(This option is independent of P69E 5E, Home arming by radio key ON/OFF buttons).

OFF: No AUX button Home Arm. (Factory default). ON: AUX button Home Arm enabled.

KEYSWITCH DISARM ONLY

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 24.

OFF: Keyswitch arms and disarms. (Factory default). ON: Keyswitch disarms only.

KEYSWITCH ARM ONLY

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 24.

OFF: Keyswitch arms and disarms. (Factory default). ON: Keyswitch arms only.

SMART BEEPS

Smart Beeps are available in Brief Home or Brief Day mode to identify zones by keypad beeps.

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).

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.

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.

OFF: Smart Beeps disabled. (Factory default). ON: Smart Beeps enabled.

ENTRY DELAY EXTENDER

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).

OFF: Normal Entry Delay Time. (Factory default). ON: Entry Delay Multipled by 10.

AREA2 DISARM BY KEYSWITCH ALLOWED

This option allows the keyswitch (if enabled) to disarm Area2. Note, the keyswitch cannot arm Area2, only disarm. Though it can can both arm & disarm Area1.

OFF: Option Disabled. (Factory default). ON: Option Enabled.

AUX1 OUTPUT OPTIONS

Only one of the P121E options may be selected.

Option No.		Description	Defau	ılt
P121E	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.

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Option No.		No.	Description	Default
P	141E	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	Telephone remote control of AUX1	OFF
		6E	[not used]	OFF
		7E	[not used]	OFF
		8E	Pulse AUX1	OFF

P121E 1E - 8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

1E on.

NOTES

Only one option can be on. Turning an option on turns off another.

RELATED OPTIONS

P141E 1E-8E Enhanced AUX1 options. P354E 5E-6E AutoTimer1 AUX1 options. P359E 5E-6E AutoTimer2 AUX1 options. P364E 5E-6E AutoTimer3 AUX1 options. P369E 5E-6E AutoTimer4 AUX1 options.

P121E 1E

RELATED OPTIONS

P58E Aux1,3 zones.

P121E 2E

RELATED OPTIONS

P65E, P66E, P67E Radio Supervision.

P121E 3E

Available in D8x/D16x V6 and later.

NOTES

When this option is on, Radio Key Panic buttons will no longer sound alarms or report alarms by dialler.

RELATED OPTIONS

P350E to P369E. AutoTimers 1 to 4.

P121E 4E

NOTES

When this option is on, Radio Key Panic buttons will no longer sound alarms or report alarms by dialler.

RELATED OPTIONS

P145E AUX1 Timer

P121E 7E

RELATED OPTIONS

P303E DOTL zones. P304E DOTL timer.

P121E 8E

RELATED OPTIONS

P318E, P328E, P338E, P319E, P329E, P339F.

AUX1 OUTPUT OPTIONS

P121E is one of several options which control the behaviour of the AUX1 output.

One of the most powerful features of the D8x/D16x panels is the flexibility to control the AUX outputs by various events and alarms. If the AUX1 output does not behave as expected, please check all related options such as AutoTimers and P141E options.

TO PROGRAM

- 1. Press **P121E.**
- 2. Press 1E ... 8E to turn an option on. Only one option can be on.

ZONE ALARMS TO AUX1

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.

ZONE SUPERVISION ALARMS TO AUX1

Setting this option turns the AUX1 output ON when a SUPERVISED RADIO alarm is triggered. The Aux1 output turns off when the panel is disarmed/reset.

ENABLE AUX1 FOR AUTOTIMER / RADIO KEY PANIC TOGGLES AUX1

Dual action programming option.

When this option is on, AUX1 IS ENABLED FOR USE BY AUTOTIMER and RADIO KEY/S PANIC BUTTON WILL TOGGLE THE AUX1 OUTPUT.

RADIO KEY PANIC PULSES AUX1

When this option is on, Radio Key/s Panic button will PULSE the Aux1 output.

DOOR OPEN TOO LONG (DOTL) ALERTS TO AUX1

This option enables DOTL zones (P303E) to turn on Aux1 when the DOTL Time (P304E) expires.

READER OUTPUT TO AUX1

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.

AUX1 OUTPUT OPTIONS

P141E 1E - 8E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

All off.

NOTES

Any or all options may be selected on.

P141E 1E

ENHANCED AUX1 OUTPUT OPTIONS

The P141E enhanced AUX1 options work along with P121E and AutoTimers to provide multiple choices of events and alarms to control AUX1.

TO PROGRAM

- 1. Press **P141E.**
- 2. Press 1E ... 8E to turn an option on. Multiple options can be selected.

AREA 1 ARMED TO AUX1

Turns on AUX1 while Area 1 is armed.

P141E 2E

AREA 2 ARMED TO AUX1

Turns on AUX1 while Area 2 is armed.

P141E 3E

HOME ARMED TO AUX1

Turns on AUX1 while armed in Home mode.

P141E 4E

KEYPAD TOGGLE AUX1

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).

P141E 5E

NOTES

Remote operation by telephone procedure as detailed in the user and installation manuals must be followed before access is allowed. This includes entering a valid user code.

RELATED OPTIONS

P90E 5E, Enable remote Aux control. P141E 8E Pulse AUX1.

P141E 8E

RELATED OPTIONS

P145E, AUX1 Pulse Time.

TELEPHONE REMOTE CONTROL OF AUX1

When this option is on and you have connected to the panel by telephone remote control:

AUX1 is turned ON or PULSED with the telephone keypress 11*

AUX1 is turned OFF with the telephone keypress 11#

FEEDBACK TONES HEARD BY PHONE:

3 BEEPS: The AUX has been turned ON or is already ON.

1 BEEP: The AUX has been turned OFF or is already OFF.

1 LONG BEEP: Error. Remote AUX operation by telephone is not enabled.

PULSE AUX1

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

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

20 sec.

RELATED OPTIONS

P141E 8E

AUX1 TIMER

Sets the length of pulse time for the AUX1 output when the P141E 8E option is selected. Select 1 to 99 seconds.

TO PROGRAM

Press P145E (The existing Pulse Time will be displayed).

Press [NEW TIME] E (The new Pulse Time will be displayed).

AUX2 OUTPUT OPTIONS

Only one of the P122E options may be selected.

Option No.		Description	Defau	ılt
P122E	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	Phone line fail to Aux2	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
P142E	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	Telephone remote control of AUX2	OFF
	6E	[not used]	OFF
	7E	[not used]	OFF
	8E	Pulse AUX2	OFF

P122E 1E-8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

1E on.

NOTES

Only one option can be on. Turning an option on turns off another.

RELATED OPTIONS

P142E 1E-8E Enhanced AUX2 options. P354E 7E-8E AutoTimer1 AUX2 options. P359E 7E-8E AutoTimer2 AUX2 options. P364E 7E-8E AutoTimer3 AUX2 options. P369E 7E-8E AutoTimer4 AUX2 options.

P122E 1E

RELATED OPTIONS

P59F Aux2 zones.

P122E 2E

RELATED OPTIONS

P65E, P66E, P67E Radio Supervision.

AUX2 OUTPUT OPTIONS

P122E is one of several options which control the behaviour of the AUX2 output. One of the most powerful features of the D8x/D16x 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.

TO PROGRAM

- 1. Press P122E.
- 2. Press 1E ... 8E to turn an option on. Only one option can be on.

ZONE ALARMS TO AUX2

Dual action programming option.

will TOGGLE the AUX2 output.

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.

ZONE SUPERVISION ALARMS TO AUX2

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.

ENABLE AUX2 FOR AUTOTIMER / RADIO KEY AUX TOGGLES AUX2

When this option is on, AUX2 is enabled for use by AutoTimer and Radio Key/s AUX button

P122E 3E

Available in D8x/D16x V6 and later.

RELATED OPTIONS

P350E to P369E. AutoTimers 1 to 4.

P122E 4E

RELATED OPTIONS

P146E AUX2 Timer

P122E 5E

RADIO KEY AUX BUTTON PULSE AUX2

When this option is on, Radio Key/s AUX button button will PULSE the Aux2 output.

TELEPHONE LINE FAULT TO AUX2

When this option is enabled, a telephone line fault condition will turn on the Aux2 output. Aux 2 will turn off when the telephone line is restored.

DOOR OPEN TOO LONG (DOTL) ALERTS TO AUX2

This option enables DOTL zones (P303E) to turn on AUX2 when the DOTL Time (P304E) expires.

P122E 8E

P122E 7E

RELATED OPTIONS

RELATED OPTIONS

P303E DOTL zones.

P304E DOTL timer.

P318E, P328E, P338E, P319E, P329E, P339F.

READER OUTPUT TO AUX2

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.

AUX2 OUTPUT OPTIONS

P142E 1E - 8E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

All off.

NOTES

Any or all options may be selected on.

P142E 1E

P142E 2E

P142E 3E

P142E 4E

ENHANCED AUX2 OUTPUT OPTIONS

The P142E enhanced AUX2 options work along with P122E and AutoTimers to provide multiple choices of events and alarms to control AUX2.

TO PROGRAM

- 1. Press P142E.
- 2. Press 1E ... 8E to turn an option on. Multiple options can be selected.

AREA1 ARMED TO AUX2

Turns on AUX2 while Area 1 is armed.

AREA2 ARMED TO AUX2

Turns on AUX2 while Area 2 is armed.

HOME ARMED TO AUX2

Turns on AUX2 while armed in Home mode.

KEYPAD TOGGLE AUX2

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).

P142E 5E

NOTES

Remote operation by telephone procedure as detailed in the user and installation manuals must be followed before access is allowed. This includes entering a valid user code.

RELATED OPTIONS

P90E 5E, Enable remote Aux control.

TELEPHONE REMOTE CONTROL OF AUX2

When this option is on,

AUX2 is turned ON or PULSED with the telephone keypress 22*

AUX2 is turned OFF with the telephone keypress 22#

FEEDBACK TONES HEARD BY PHONE:

3 BEEPS: The AUX has been turned ON or is already ON.

1 BEEP: The AUX has been turned OFF or is already OFF.

1 LONG BEEP: Error. Remote AUX operation by telephone is not enabled.

P142E 8E

RELATED OPTIONS

P146E, AUX2 Pulse Time.

PULSE AUX2

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

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

20 sec.

RELATED OPTIONS

P142E 8E

AUX2 TIMER

Sets the length of pulse time for the AUX2 output when the P142E 8E option is selected. Select 1 to 99 seconds.

TO PROGRAM

Press P146E (The existing Pulse Time will be displayed).
Press [NEW TIME] E (The new Pulse Time will be displayed).

AUX3 OUTPUT OPTIONS

Only one of the P123E options may be selected.

Option No.		Description	Default
P123E	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.

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Option No.		Description	Default
P143E	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	Telephone remote control of AUX3	OFF
	6E	[not used]	OFF
	7E	[not used]	OFF
	8E	Pulse AUX3	OFF

P123E 1E

Available in D8x/D16x V8 and later.

RELATED OPTIONS

P58E Aux1,3 zones.

P121E 1E Zone Alarms to AUX1

ZONE ALARMS TO AUX3

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.

P123E 1E-8E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

1E on.

NOTES

Only one option can be on. Turning an option on turns off another.

RELATED OPTIONS

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.

AUX3 OUTPUT OPTIONS

P123E is one of several options which control the behaviour of the AUX3 output.

One of the most powerful features of the D8x/D16x panels is the flexibility to control the AUX outputs by various events and alarms. If the AUX3 output does not behave as expected, please check all related options such as AutoTimers and P143E options.

TO PROGRAM

- 1. Press P123E.
- 2. Press 1E ... 8E to turn an option on. Only one option can be on.

P123E 3E

Available in D8x/D16x V8 and later.

RELATED OPTIONS

P370E to P389E. AutoTimers.

ENABLE AUX3 FOR AUTOTIMER

When this option is on, AUX3 is enabled for use by AutoTimer.

P123E 4E

Available in D8x/D16x V8 and later.

NOTES

When this option is on, Radio Key Panic buttons will no longer sound alarms or report alarms by dialler.

RELATED OPTIONS

P147E AUX3 Timer

RADIO KEY PANIC PULSES AUX3

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.

P123E 8E

RELATED OPTIONS

P318E, P328E, P338E, P319E, P329E, P339E.

READER OUTPUT TO AUX3

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.

AUX3 OUTPUT OPTIONS

P143E 1E - 8E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

All off.

NOTES

Any or all options may be selected on.

P143E 1E

P143E 2E

P143E 3E

P143E 4E

ENHANCED AUX3 OUTPUT OPTIONS

The P143E enhanced AUX3 options work along with P123E and AutoTimers to provide multiple choices of events and alarms to control AUX3.

TO PROGRAM

- 1. Press P143E.
- 2. Press 1E ... 8E to turn an option on. Multiple options can be selected.

AREA1 ARMED TO AUX3

Turns on AUX3 while Area 1 is armed.

AREA2 ARMED TO AUX3

Turns on AUX3 while Area 2 is armed.

HOME ARMED TO AUX3

Turns on AUX3 while armed in Home mode.

KEYPAD TOGGLE AUX3

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).

P143E 5E

NOTES

Remote operation by telephone procedure as detailed in the user and installation manuals must be followed before access is allowed. This includes entering a valid user code.

RELATED OPTIONS

P90E 5E, Enable remote Aux control.

TELEPHONE REMOTE CONTROL OF AUX3

When this option is on,

AUX3 is turned ON or PULSED with the telephone keypress 33*

AUX3 is turned OFF with the telephone keypress 33#

FEEDBACK TONES HEARD BY PHONE:

- 3 BEEPS: The AUX has been turned ON or is already ON.
- 1 BEEP: The AUX has been turned OFF or is already OFF.
- 1 LONG BEEP: Error. Remote AUX operation by telephone is not enabled.

P143E 8E

RELATED OPTIONS

P147E, AUX3 Pulse Time.

PULSE AUX3

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

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

20 sec.

RELATED OPTIONS

P143E 8E

AUX3 TIMER

Sets the length of pulse time for the AUX3 output when the P143E 8E option is selected. Select 1 to 99 seconds.

TO PROGRAM

Press P147E (The existing Pulse Time will be displayed).
Press [NEW TIME] E (The new Pulse Time will be displayed).

AUX4 OUTPUT OPTIONS

Only one of the P124E options may be selected.

Option No.		Description	Default
P124E	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
P144E	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	Telephone remote control of AUX4	OFF
	6E	[not used]	OFF
	7E	[not used]	OFF
	8E	Pulse AUX4	OFF

P124E 1E-8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

1E on.

NOTES

Only one option can be on. Turning an option on turns off another.

RELATED OPTIONS

P143E 1E-8E Enhanced AUX4 options. P374E 5E-6E AutoTimer1 AUX4 options. P379E 5E-6E AutoTimer2 AUX4 options. P384E 5E-6E AutoTimer3 AUX4 options.

P389E 5E-6E AutoTimer4 AUX4 options. P124E 1E

RELATED OPTIONS

P59E Aux2 zones.

P122E 1E Zone Alarms to AUX2

P124E 2E

NOTES

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)

P124E 3E

Available in D8x/D16x V6 and later.

RELATED OPTIONS

P370E to P389E. AutoTimers.

P124E 4E

Available in D8x/D16x V8 and later.

RELATED OPTIONS

P148E AUX4 Timer

AUX4 OUTPUT OPTIONS

P124E is one of several options which control the behaviour of the AUX4 output. One of the most powerful features of the D8x/D16x panels is the flexibility to control the AUX outputs by various events and alarms. If the AUX4 output does not behave as expected, please check all related options such as AutoTimers and P144E options.

TO PROGRAM

- 1. Press P124E.
- 2. Press 1E ... 8E to turn an option on. Only one option can be on.

ZONE ALARMS TO AUX4

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.

ENABLE EXTENSION SONALERT

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).

ENABLE AUX4 FOR AUTOTIMER

When this option is on, AUX4 is enabled for use by AutoTimer.

RADIO KEY PANIC PULSES AUX4

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.

ENABLE AUX4 FAIL TO COMMUNICATE OUTPUT

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.

READER OUTPUT TO AUX4

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.

P124E 5E

Available in D8x/D16x V6 and later.

RELATED OPTIONS

P370E to P389E. AutoTimers.

P124E 8E

RELATED OPTIONS

P318E, P328E, P338E, P319E, P329E, P339E.

AUX4 OUTPUT OPTIONS

P144E 1E - 8E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

All off.

NOTES

Any or all options may be selected on.

P144E 1E

P144E 2E

P144E 3E

P144E 4E

ENHANCED AUX4 OUTPUT OPTIONS

The P144E enhanced AUX4 options work along with P124E and AutoTimers to provide multiple choices of events and alarms to control AUX4.

TO PROGRAM

- 1. Press P144E.
- 2. Press 1E ... 8E to turn an option on. Multiple options can be selected.

AREA1 ARMED TO AUX4

Turns on AUX4 while Area 1 is armed.

AREA2 ARMED TO AUX4

Turns on AUX4 while Area 2 is armed.

HOME ARMED TO AUX4

Turns on AUX4 while armed in Home mode.

KEYPAD TOGGLE AUX4

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).

P144E 5E

NOTES

Remote operation by telephone procedure as detailed in the user and installation manuals must be followed before access is allowed. This includes entering a valid user code.

RELATED OPTIONS

P90E 5E, Enable remote Aux control.

TELEPHONE REMOTE CONTROL OF AUX4

When this option is on,

AUX4 is turned ON or PULSED with the telephone keypress 44*

AUX4 is turned OFF with the telephone keypress 44#

FEEDBACK TONES HEARD BY PHONE:

3 BEEPS: The AUX has been turned ON or is already ON.

1 BEEP: The AUX has been turned OFF or is already OFF.

1 LONG BEEP: Error. Remote AUX operation by telephone is not enabled.

P144E 8E

RELATED OPTIONS

P148E, AUX4 Pulse Time.

PULSE AUX4

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

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

20 sec.

RELATED OPTIONS

P144E 8E

AUX4 TIMER

Sets the length of pulse time for the AUX4 output when the P144E 8E option is selected. Select 1 to 99 seconds.

TO PROGRAM

Press P148E (The existing Pulse Time will be displayed).
Press [NEW TIME] E (The new Pulse Time will be displayed).

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
P151E	1E	[not used]	OFF
or	2E	[not used]	OFF
P152E	3E	[not used]	OFF
P153E	4E	Keypad toggle AUX5	OFF
P154E	5E	Telephone remote control of AUX5	OFF
6E		[not used]	OFF
7E		Reader Output to AUX5	OFF
	8E	Pulse AUX5	OFF

P151E 4E

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF

RELATED OPTIONS

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.

PROGRAMMING SEQUENCE:

P151E 4E toggles the option ON and OFF

OFF: Option disabled

ON: AUX5 keypad control enabled

P151E 5E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF

RELATED OPTIONS

P90E 5E Enable remote AUX control

TELEPHONE REMOTE CONTROL OF AUX5

When this option is on, AUX5 (on the Output Expander/s) is able to be controlled by telephone remote control.

PROGRAMMING SEQUENCE:

P151E 5E toggles the option ON and OFF

OFF: Option disabled

ON: AUX5 telephone remote control enabled

P151E 7E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF

RELATED OPTIONS

P318E, P328E, P338E, P319E, P329E, P339E

presented. Set the reader using P318E, P328E or P338E. PROGRAMMING SEQUENCE:

READER OUTPUT TO AUX5

P151E 7E toggles the option ON and OFF

OFF: Option disabled

ON: Access control reader output to AUX5 enabled

P151E 8E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF

RELATED OPTIONS

P155E, P156E, P157E, P158E

PULSE AUX5

This option sets AUX5 to Pulse (momentary output) for any action that triggers AUX5 inckuding keypad operation (see P151E 4E). Set the pulse on time using P155E.

This option enables an access control reader to pulse AUX5 when a valid access card is

PROGRAMMING SEQUENCE:

P151E 8E toggles the option ON and OFF

OFF: Option disabled

ON: AUX5 pulse output enabled

AUX5, AUX6, AUX7, AUX8 OUTPUT OPTIONS

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

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

20 sec.

RELATED OPTIONS

P151E 8E Pulse AUX5

P152E 8E Pulse AUX6 P153E 8E Pulse AUX7

P154E 8E Pulse AUX8

AUX5 - AUX8 TIMERS

Sets the length of pulse time for the AUX5 – AUX8 outputs when the outputs are set for Pulse mode. Select 1 to 99 seconds.

TO PROGRAM

Press P155E, P156E, P157E or P158E (The existing Pulse Time will be displayed). Press [NEW TIME] E (The new Pulse Time will be displayed).

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

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

Level 99 (highest)

P161E

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

Level 99 (highest)

P162E

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

Level 16 (low volume)

ALARM SIREN VOLUME

Sets the Audible Alarm volume level for the Siren output.

Select volume from 1 (lowest) to 99 (highest).

TO PROGRAM

Press P160E (The existing volume level will be displayed). Press [NEW LEVEL] E (The new level will be displayed).

FIRE SIREN VOLUME

Sets the Fire Alarm volume level for the Siren output.

Select volume from 1 (lowest) to 99 (highest).

TO PROGRAM

Press P161E (The existing volume level will be displayed). Press [NEW LEVEL] E (The new level will be displayed).

CHIRP SIREN VOLUME

Sets the Chirp volume level for the Siren output. Select volume from 1 (lowest) to 99 (highest).

TO PROGRAM

Press P162E (The existing volume level will be displayed). Press [NEW LEVEL] E (The new level will be displayed).

		ZONES 1-8 (D8 & D16)			ZONES 9-16 (D16)												
Option No.	Description	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

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All on.

NOTES

• THIS OPTION APPLIES ONLY TO WIRED ZONES AND HAS NO EFFECT ON RADIO ZONES.

ENABLE HARDWIRED 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.

PROGRAMMING SEQUENCE:

P125E 1E-16E toggles the options ON and OFF

[Zone No]E OFF: Hardwired zones disabled for that zone [Zone No]E ON: Hardwired zones enabled for that zone

P126E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later

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.

MISC KEYPAD OPTIONS

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

TO PROGRAM

- 1. Press P126E.
- 2. Press 1E-5E to turn an option ON or OFF.
 - 1E, enables double key PANIC.
 - 2E, enables double key FIRE.
 - 3E, enables double key MEDICAL on KPX & Saturn. 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.

P129E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

4E, 2.2k

NOTES

- The EOL value selected applies to all zone inputs and the external tamper input.
- The keyswitch input (if enabled) will not operate with EOL resistor values other than the default value of 2k2. See P60E 2E, 3E, page 24.

END OF LINE RESISTOR OPTIONS

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

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

TO PROGRAM

- 1. Press P129E
- 2. Press 1E-13E to turn an option ON.

1E ON, 0k (The zone inputs will be Normally Closed. Open circuit to alarm).

2E, 1k resistors 3E, 1.5k resistors

4E, 2.2k resistors (Default)

5E, 3.3k resistors 6E, 3.9k resistors 7E, 4.7k resistors 8E, 5.6k resistors 9E, 6.8k resistors 10E, 8.2k resistors 11E, 10k resistors 12E, 12k resistors 13E, 22k resistors

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

AutoTi	mer '	1	
P350E		Minutes 0-59	30
P351E		Hours 0-23	18
P352E		Days (1=Sunday)	2, 3, 4, 5, 6
P353E	1E	AREA 1 ARM	ON
	6E	KEYPAD Beeps	ON
	8E	Extend AutoTIME	ON
P390E		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 sprinkers, 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						
P355E		Minutes 0-59	00			
P356E		Hours 0-23	20			
P357E		Days (1=Sunday)	7			
P359E	6E	AUX1 PULSE	ON			
P145E		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 11.

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+	9E	
mode. See p	Enable user Code for AutoTime	
P256E	User Code 56	ON

AutoTimer 3 Enables the user code.

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

AutoTimer 4 Disables the code.

AutoTimer 4							
P365E		Minutes 0-59	00				
P366E		Hours 0-23	07				
P367E		Days (1=Sunday)	2, 3, 4, 5, 6				
P368E	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 4 for further information.



- 1. For correct operation of Auto-Time features please ensure that the onboard clock is set to the current time and date. See option P340-P345E, page 70.
- 2. D8/D16 version 8 and later has a real time clock onboard which does not rely on external timing signals.

Option No.	Description	Default	Note
P340E	REAL TIME CLOCK SET MINUTES	00	00–59 minutes
P341E	REAL TIME CLOCK SET HOURS	00	00-23 hours (00=midnight)
P342E	REAL TIME CLOCK SET DAY	01	01-31 days
P343E	REAL TIME CLOCK SET MONTH	01	01–12 months
P344E	REAL TIME CLOCK SET YEAR	09	00-63 (2000-2063)
P345E	REAL TIME CLOCK VIEW DAY OF WEEK	1	1-7 (1=Sunday, 7=Saturday)

P340 - P345E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

User Mode, Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

none

NOTES

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.

P390

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

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 P388E 6E AutoTimer7, keypad beeps P388E 6E AutoTimer8, keypad beeps

REALTIME CLOCK PROGRAMMING

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

TO PROGRAM

- 1. Press P340E P345E
- 2. Press [New value] E

LCD keypads - the programmed time is displayed one digit at a time. Navigator keypad - the programmed time is displayed on screen

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).

P345E Real Time Clock Day Of The Week. This value is calculated from the date. No programming is necessary. Use this option only to view the Day Of The Week. (1=Sunday). Default 1, (Sunday).

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.

TO PROGRAM

- 1. Press **P390E**
- 2. Press [New value] E

The allowed range is 1 to 99 minutes.

LCD keypads - the programmed time is displayed one digit at a time. Navigator keypad - the programmed time is displayed on screen

P392E 1E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

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.

TO PROGRAM

- 1. Press **P392E.**
- 2. Press **1E** to turn the option ON or OFF. Turn the option ON to enable User codes.

P350 - P354E

Available in D8x/D16x V6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

none

RELATED OPTIONS

P121E Enable AUX1 for AutoTimers
P122E Enable AUX2 for AutoTimers
P123E Enable AUX3 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 91 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.

TO PROGRAM

- 1. Press P350E P352E. Existing value is displayed one digit at a time.
- 2. Press [New value] E. The new value is displayed one digit at a time.

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.

TO PROGRAM

- 1. Press P353E or P354E.
- 2. Press 1E-8E to turn an option ON or OFF. Multiple options can be selected.

P353E

TO ENABLE AUTO-ARMING

- 1E Area1 Arm. Arms Area1 at the time & day set by AutoTimer1.
- 2E Area2 Arm. Arms Area2 at the time & day set by AutoTimer1.
- **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

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.

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

TO ENABLE PRE-EVENT WARNING BEEPS

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.

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

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.
- 2E Area2 Disarm. Disarms Area2 at the time & day set by AutoTimer1.
- 3E Home Disarm. Disarms Home Mode at the time & day set by AutoTimer1.
- 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.

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

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

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

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.

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.

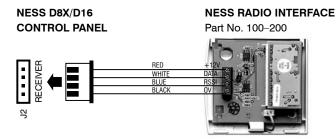
LOW BATTERY REPORT: A low battery gives 10 beeps and flashes the RADIO & the BATTERY light. The ZONE light identifying the radio device is also ON. The flashing lights stop when any key on the keypad is pressed or a detector code with no low battery is received. Low Battery generates HISTORY and DIALLER 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 31-33 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.



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:

- 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
- 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.

- · Radio Device programming is done by 'learning' the code by radio.
- Radio Devices codes can only be deleted by keypad.
- 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

	Zone 1	P101E
	Zone 2	P102E
ဖြ	Zone 3	P103E
5	Zone 4	P104E
D8 & D16	Zone 5	P105E
	Zone 6	P106E
	Zone 7	P107E
	Zone 8	P108E
	Zone 9	P109E
	Zone 10	P110E
	Zone 11	P111E
D16	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 or open the RADIO link).

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



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.

PROGRAMMING RADIO DEVICES

Up to 8 or 16 radio devices can be assigned to the D8x and D16x, (one per zone).

PROGRAMMING SEQUENCE - NO RESTORALS

Suitable for Radio PIRs, Radio Pendant, Radio Smoke Detector.

- Select a zone using P101E P116E (options P109E-P116E apply to D16 only). The ARMED light will be ON if a Radio Device is already programmed to the zone. Press 0E to delete.
- Press 1E

The READY light will turn ON to indicate that the zone is ready to accept the Radio Device.

- 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. B. If the READY light stays on and a warning 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 Insert the battery in the Radio PIR

PROGRAMMING SEQUENCE - WITH RESTORALS

Suitable for Radio Reed Switches.

- Alarm the reed switch, ie., move the magnet away from the switch Leave the reed switch in the alarm condition and wait until radio transmission has stopped.
- 2 Select a zone using P101E P116E The ARMED light will be ON if a Radio Device is already programmed to the zone. Press 0E to delete.
- Press 1E

The READY light will turn ON to indicate that the zone is ready to accept the Radio Device.

- A Restore the reed switch (place the magnet next to the switch)
 - A. If the Radio Device is accepted, the READY light will turn off, the ARMED light will turn on and 3 beeps will sound.
 - B. The MEMORY light will turn on to indicate that this device sends Restorals.
 - C. If the READY light stays on and a warning beep sounds, the Radio Device is already assigned to another zone and must be cleared from that zone first.
 - D. If SUPERVISED SIGNALS have also been successfully recognised, the TAMPER light will turn ON.

EXAMPLE: To program a Radio Reed Switch with Restorals on zone 2:

Alarm the reed switch P102E 1E Restore the reed switch

DELETING A RADIO DEVICE:

- 1 Use P101E to P116E to select the zone
- 2 Press 0E to clear the device (3 beeps will sound)

	USER CODE OPTIONS TABLE				
USER CODE	OPTION NO.	5E RADIO CODE			
1 (Master)	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				
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				
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	P256F				



Radio Keys 100–067 RK4 106–167 RK4B 106–299 RK4P 106-178 RK3+1



100–001 Ness RKP Radio Keypad

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:

- 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).
- Press EXCLUDE E to enter Extra Options mode. (The Exclude light is on).
- Press 5E to enable that user code as a Radio Code. (Light 5 is on).
- 4 Press EXCLUDE E to exit Extra Options mode. (The Exclude light is off).
- 6 Press 1E

The READY light will turn ON to indicate that the User Code is ready to accept the Radio Key. If a code is already programmed the READY light will not turn on and a warning beep will sound. To clear the code, press 0E, then go back to step 5. (0E clears any existing codes).

(3) Press the OFF button on the Radio Key to be programmed If the Radio Key is accepted, the READY light will turn off and 3 beeps will sound. If the READY light 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.

EXAMPLE: To enable User Code 56 as a Radio Code and program a Radio Key.

In Installer Program Mode.

Press **P256E EXCLUDE E 5E EXCLUDE E 1E** then press the OFF button on the Radio Key.

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)

RELATED OPTIONS

P101E-P116E Programming Radio Devices.

TO DELETE A RADIO CODE:

Any Radio Code can be deleted if necessary, (lost radio key or if programming a radio key over an old one). And a Radio Code is 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 **P256E 0E**

56

P256E

PROGRAMMING

Option I	No.	Description	Default
P199E	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 (D8x/D16x V6 and later)	OFF
	7E	[not used]	OFF
	8E	[not used]	OFF

P199E

Available in D8x/D16x V5.6 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

Options 1E-5E OFF - Serial data options disabled.

NOTES

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

SERIAL OUTPUT OPTIONS

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.

PROGRAMMING SEQUENCE:

P199E 1E-5E toggles the option ON and OFF

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.)

P300E

PROGRAM MODE LEVEL

Installer mode or NessComms.

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.



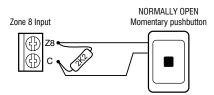
If connecting multiple readers, the option to enable multiple readers (P301E 1E) should be turned on before programming any access cards.

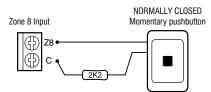
(Enabling P301E 1E erases existing card programming).



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.





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).
- 2 Press EXCLUDE E to enter Extra Options mode. (Exclude light turns on).
- Press 6E, 7E or 8E to assign the user code to Reader 1, 2 or 3. (Keypad light 6, 7 or 8 will turn on).
- 4 Press EXCLUDE E to exit Extra Options mode. (Exclude light turns off).
- 6 Press 1E

The keypad READY light will turn ON to indicate that the user code is ready to accept an access card. If a code is already programmed the READY light will not turn on and a warning beep will sound. To clear the code, press 0E, then go back to step 5. (0E clears any existing codes).

6 Present a valid access card to the reader.

If the access card is of the correct type, the reader's orange light will turn on.

If the access card is accepted, the keypad READY light will turn off and 3 beeps will sound.

If the READY light stays on and a warning beep sounds, the access card is already assigned to another user code and must be cleared from that user code first.

Once a card is programmed to a user code it can be used to:

ARM THE PANEL.

To allow arming with a double read, enable option P301E 2E.

To allow arming with a single read and pushbutton, enable option P301E 3E.

(Both methods can be enabled at once).

DISARM THE PANEL.

To allow disarming, (single read), enable option P301E 4E.

(This option can be enabled if necessary. A user may be allowed to arm by access card but not disarm, or vice-versa).

OPERATE AUX OUTPUT/S.

FOR EXAMPLE TO OPERATE DOORSTRIKE/S

To allow the operation of panel AUX outputs by access card, the reader to which the card is assigned must be programmed to operate one of the four AUX outputs.

- First, enable one or more AUX outputs to be a Reader output, P121E 8E, P122E 8E, P123E 8E and P124E 8E.
- If using more than one 101-014 Ultraprox Reader, enable P301E 1E to Use Reader Addresses.
- Next, assign which reader will trigger which AUX output. P318E P338E

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

P301E 1E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF (Use one reader).

NOTES

When using multiple readers, this option must be enabled before programming any access cards, (to avoid losing card programming when the option is enabled).

P301E 2E

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

P301E 3E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF.

NOTES

• When this option is enabled, zone 8 is automatically disabled as an alarm zone.

P301E 4E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

P301E 5E-7E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

OFF.

NOTES

- When one of these options is enabled, that zone is automatically disabled as an alarm zone.
- 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.

RELATED OPTIONS

P37E, P38E Long Response Zones P318E, P328E, P338E, P121E-P124E Programming of Readers to Aux outputs.

USE READER ADDRESSES

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 the connection of the violet wire. See the wiring diagram on page 82).

If this option is off, one standard Weigand 26bit reader can be used. The reader's actions are determined by the P318E, P319E Reader 1 options.

PROGRAMMING SEQUENCE:

P301E 1E toggles the option ON and OFF

OFF: Do not use Reader addresses ON: Use Reader addresses

ARM WITH DOUBLE READ

When this option is enabled the panel will arm if the same valid access card is presented to a reader twice within 5 seconds.

PROGRAMMING SEQUENCE:

P301E 2E toggles the option ON and OFF

OFF: Do not Arm With Double Read ON: Arm With Double Read

ARM WITH SINGLE READ AND PUSHBUTTON

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.

This option can be used to prevent accidental arming or disarming by access card.

PROGRAMMING SEQUENCE:

P301E 3E toggles the option ON and OFF

OFF: Do not Arm With Single Read and Pushbutton **ON**: Arm With Single Read and Pushbutton

DISARM WITH ACCESS CARD

When this option is enabled a valid access card will disarm the panel. (It will perform the same function as a keypad code + E or a radio key off button).

PROGRAMMING SEQUENCE:

P301E 4E toggles the option ON and OFF

OFF: Do not Disarm with access card ON: Disarm with access card

REQUEST TO EXIT (REX) INPUTS

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.

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.

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.

PROGRAMMING SEQUENCE:

P301E 5E, 6E or 7E toggles the option ON and OFF

OFF: The zone is a normal alarm zone

ON: The zone is a REX input

P301E 8E

Available in D8x/D16x V5.3 and later.

PROGRAM MODE LEVEL Installer mode or NessComms.

FACTORY DEFAULT

ON

STROBE FLASH ON ARM/DISARM BY READER

This option enables strobe flash when arming and disarming by Reader. (D8x/D16x versions prior to V5.4 had strobe flash permanently enabled).

PROGRAMMING SEQUENCE:

P301E 8E toggles the option ON and OFF

OFF: Strobe flash disabled ON: Strobe flash enabled

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

P303E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

All OFF: No DOTL zones.

NOTES

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).

P304E

PROGRAM MODE LEVEL

Installer mode or NessComms.

FACTORY DEFAULT

20 seconds.

DOOR OPEN TOO LONG (DOTL) ZONES

This selects the zones that will generate a DOTL alert if the zone is unsealed for longer than the time set by P304E.

The types of alerts are set by P121E 7E, P122E 7E and P305E.

PROGRAMMING SEQUENCE:

P303E 1E-16E toggles the options ON and OFF

OFF: DOTL is disabled for that zone ON: DOTL is enabled for that zone

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

DOTL TIME

Sets the delay time in seconds before a DOTL zone generates a DOTL alert. Enter a value between 01 and 99.

PROGRAMMING SEQUENCE:

P304E existing DOTL time is displayed one digit at a time [ENTER NEW VALUE] E new value is displayed one digit at a time

Option N	No.	Description	Default
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
	6E	[not used]	OFF
	7E	[not used]	OFF
	8E	[not used]	OFF

PROGRAM MODE LEVEL

Installer mode or NessComms.

PROGRAMMING SEQUENCE:

P305E [1E-8E] toggles the options ON and OFF

P305E 1E

RELATED OPTIONS

P121E 7E DOTL Alerts to Aux1. P122E 7E DOTL Alerts to Aux2.

DOTL OUTPUT LATCHES

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.

1E OFF: DOTL Outputs follow the state of DOTL zones set by P303E. (Factory default).

1E ON: DOTL Outputs latch on until reset by disarming the panel.

P305E 2E

RELATED OPTIONS

P117E 1E Enable Output Expander.

DOTL ALERTS TO 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.

2E OFF: No DOTL Alerts to the Output Expander. (Factory default).

2E ON: DOTL Alerts sent to the Output Expander.

P305E 3E

Available in D8x/D16x V8 and later.

DOTL TIMER IN MINUTES

Chnages the P304E timer to minutes to give the option for longer DOTL times.

3E OFF: DOTL Timer in seconds. (Factory default).

3E ON: DOTL Timer in minutes.

P305E 4E

Available in D8x/D16x V8 and later.

DOTL TIMER IN HOURS

Chnages the P304E timer to hours to give the option for extra long DOTL times.

4E OFF: DOTL Timer in seconds or minutes as set by P305E 3E. (Factory default).

4E ON: DOTL Timer in hours.

P305E 5E

DOTL ALERTS TO KEYPAD

With this option on, DOTL alerts will SLOWLY Flash the corresponding zone light on the keypad. P305E 1E settings apply.

5E OFF: No DOTL Alerts to the Keypad. (Factory default).

5E ON: DOTL Alerts slow flash zone lights on the Keypad...

Option	No.	Description	Default
P318E	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
P319E		Ultraprox Reader1 output TIME	5 sec
P328E	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
P329E		Ultraprox Reader2 output TIME	5 sec
P338E	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
P339E		Ultraprox Reader3 output TIME	5 sec

PROGRAM MODE LEVEL

Installer mode or NessComms.

NOTES

AUX outputs 5–8 are available only in D8x/D16x version 8 and later.

P318E 1E-8E

RELATED OPTIONS

P121E 8E, P122E 8E, P123E 8E, P124E 8E, P151E 7E, P152E 7E, P153E 7E, P154E 7E, P319E, P329E, P339E

P328E 1E-8E

RELATED OPTIONS

P121E 8E, P122E 8E, P123E 8E, P124E 8E, P151E 7E, P152E 7E, P153E 7E, P154E 7E, P319E, P329E, P339E

READERS 1-3 to AUX OUTPUTS 1-8

These options give the flexiblity 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 (100-719) on each Aux output on the output expander/s if connecting devices which draw more than 100mA.

P318E [1E–8E] Toggles the options.

	,		
1E ON: Reader 1 o	output to Aux1	(P121E 8E	must also be on)
2E ON: Reader 1 of	output to Aux2	(P122E 8E	must also be on)
3E ON: Reader 1 of			
4E ON: Reader 1 of	output to Aux4	(P124E 8E	must also be on)
5E ON: Reader 1 c	output to Aux5	(P151E 7E	must also be on)
6E ON: Reader 1 of	output to Aux6	(P152E 7E	must also be on)
7E ON: Reader 1 of			
8E ON: Reader 1 c	output to Aux8	(P154E 7E	must also be on)

P328E [1E-8E] Toggles the options.

	-					
1E C	N: Read	er 2 output	to Aux1	(P121E	8E must a	lso be on)
2E C	N: Reade	er 2 output	to Aux2	P122E	8E must a	lso be on)
3E C	N: Read	er 2 output	to Aux3	(P123E	8E must a	lso be on)
		er 2 output				
5E C	N: Reade	er 2 output	to Aux5	(P151E	7E must a	lso be on)
		er 2 output				
		er 2 output				
8E C	N: Read	er 2 output	to Aux8	(P154E	7E must a	lso be on)

P338E [1E-8E] Toggles the options.

1E ON: Reader 3 output to Aux1	(P121E 8E must also be on)
2E ON: Reader 3 output to Aux2	(P122E 8E must also be on)
3E ON: Reader 3 output to Aux3	(P123E 8E must also be on)

P338E 1E-8E

RELATED OPTIONS

P121E 8E, P122E 8E, P123E 8E, P124E 8E, P151E 7E, P152E 7E, P153E 7E, P154E 7E, P319E, P329E, P339E 4E ON: Reader 3 output to **Aux4** (P124E 8E must also be on) 5E ON: Reader 3 output to **Aux5** (P151E 7E must also be on) 6E ON: Reader 3 output to **Aux6** (P152E 7E must also be on) 7E ON: Reader 3 output to **Aux7** (P153E 7E must also be on) 8E ON: Reader 3 output to **Aux8** (P154E 7E must also be on)

P319E, P329E, P339E

PROGRAM MODE LEVEL Installer mode or NessComms.

RELATED OPTIONSP318E, P328E, P338E.

READERS 1-3 OUTPUT TIME

This sets the time that the outputs selected by P318E, P328E and P338E are ON. Range 1-24 seconds.

PROGRAMMING SEQUENCE:

P319E, P329E or P339E existing Reader Output Time is displayed one digit at a time [ENTER NEW VALUE] E new value is displayed one digit at a time

WIRING A SINGLE READER

P301E 1E is OFF (Reader addresses not used)

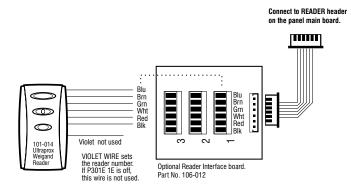
Connect only 1 reader.

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



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.

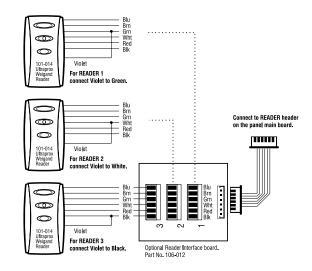


WIRING MULTIPLE READERS

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.

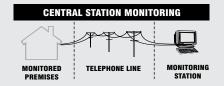
Setup Example:

- User Codes 1555, 2555, 3555 are programmed to be Code Only Arm and are not assigned to Area 1 or Area 2.
- P318E 1E, P328 2E, P338 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).

CENTRAL STATION MONITORING



The Ness D8x and D16x control panels have an on-board digital dialler which can send detailed alarm messages to a central monitoring station.

The digital messages can include information about the zone/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.

AUDIBLE MONITORING

Note that the operation of Audible Monitoring has changed over several revisions of D8/D16 control panels

D8/D16 REVISION	AUDIBLE MONITORING TYPE
Prior to V5.6	Audible beeps
V5.6 – V7.8	Audible beeps and spoken word "Alarm"
V8.0 and later	Extensive library of spoken word messages for audible monitoring and spoken prompts for remote phone operation

This section applies to

V8.0 and later

AUDIBLE VOICE MONITORING - ENHANCED

D8x/D16x version 8.0 and later has exhanced audible monitoring features using an onboard library of voice messages to deliver clear and concise spoken word alarm messages to the recipient's mobile phone or landline.

Audible messages are detailed and interactive, with spoken word messages clearly stating the alarm condition being reported. The user can then acknowledge the alarm and hang up or enter a remote control menu which gives options to arm and disarm the system, control auxiliary outputs and even exclude zones - all over the phone.

ALARM MESSAGE TRANSMISSION

Alarm reports are sent to the Primary (P70E) and Secondary (P71E) telephone numbers or only to the Follow Me phone number (P00E) if programmed.

ALARM MESSAGE FORMAT

The alarm message starts with the introduction:

This is a security system message. To start the report press 1.

The recipient must press 1 on their phone. If not, the message repeats.

(System Name) security system reports the following

System Name is programmed by option P198E

- (See the Voice Messages table)
- ■)) Wait to hear the report again, or to continue, press 1.

Press 1 on your phone. More alarm reports, if any, are heard.

Once all alarms have been acknowledged.

■) End of messages. To control the security system press 2 then, after the tone press 2 again. To acknowledge and end, press STAR then press HASH and then hang up the phone.

Press STAR then HASH to hang up.

Press 2 then 2 to continue to the telephone remote control menu. See page 85.

P198E

Available in D8x/D16x V8 and later.

PROGRAM MODE LEVEL

Installer mode or NessComms V5.3 or later.

FACTORY DEFAULT

11E on

NOTES

Only one option can be on. Turning an option on turns off another.

SYSTEM NAME

Assign a name to the control panel to identify the system during an audible alarm message. You can program a name from the choice below.

TO PROGRAM

- 1. Press **P198E**
- 2. Press 1E-11E to turn an option ON.
 - 1E "Home"
 - 2E "Office"
 - 3E "Work"
 - 4E "Family 1"
 - 5E "Family 2"
 - 6E "Family 3"
 - 7E "System 1"
 - 8E "System 2"
 - 9E "System 3"
 - 10E "Ness Security System" 11E "Ness Corporation"

VOICE MESSAGE LIBRARY

D8x/D16x version 8.0 audible alarm messages and voice prompts for remote phone operation are drawn from this built-in library of pre-recorded voice messages.

DESCRIPTION	VOICE MESSAGE
ALARM MESSAGES	
ZONE 1 to ZONE 16	Zone 1 alarm Zone 16 alarm.
Duress	Duress EMERGENCY.
Keyswitch Panic	Keyswitch panic emergency.
Keypad Panic	Keypad panic emergency.
Radio Panic	Radio panic emergency.
Medical alarm	Medical EMERGENCY.
Fire alarm	Fire EMERGENCY.
Exit installer	Exit installer WARNING.
External Tamper	External tamper warning.
Internal Tamper	Security system Main Tamper WARNING.
Keypad Tamper	Keypad tamper warning.
Radio Tamper	Radio detector Tamper WARNING.
Mains Fail	Mains power Fail WARNING.
Panel Bat Fail	Security system main Battery Fail WARNING.
RADIO Bat Fail	Radio battery fail warning.
RADIO Super Fail	RADIO detector Supervision Fail WARNING.
ALARM INTRO	This is a security system report. To start the report press 1.
ALARM LOCATION	Security SYSTEM reports the following:
ALARM CONCLUSION	End of messages.
	To control the security system press 2, then after the tone, press 2 again.
	To acknowledge and end, press STAR, then press HASH, and then hang up the phone.
TELEPHONE REMOTE CO	NTROL MESSAGES
REMOTE CONTROL ANSWER INTRO	This is your SECURITY SYSTEM.
REMOTE CONTROL Entry Fail	Please try again. Press STAR, then enter your USER code, then PRESS HASH.
CONTROL INTRO	To arm or disarm the security system press 1.
	To control OUTPUTS press 2.
	To exclude or include a zone press 3.
	To listen to reports press 4.
	To hang up, press STAR then press HASH.
ARM & DISARM INTRO	To arm, press 1.
	To disarm, press 2.
ADMED 1	To return, press STAR
ARMED 1	Area 1 armed
ARMED 2	Area 2 armed
DISARMED 1	Area 1 disarmed
DISARMED 2	Area 2 disarmed

DESCRIPTION	VOICE MESSAGE
CONTROL OUTPUTS	Double press the selected auxiliary output 1 to 8.
INTRO	Then press STAR to activate or HASH to turn off the selected output.
	Press STAR to return.
AUX 1 ON	Auxiliary 1 ON.
AUX 2 ON	Auxiliary 2 ON.
AUX 3 ON	Auxiliary 3 ON.
AUX 4 ON	Auxiliary 4 ON.
AUX 5 ON	Auxiliary 5 ON.
AUX 6 ON	Auxiliary 6 ON.
AUX 7 ON	Auxiliary 7 ON.
AUX 8 ON	Auxiliary 8 ON.
AUX 1 OFF	Auxiliary 1 OFF.
AUX 2 OFF	Auxiliary 2 OFF.
AUX 3 OFF	Auxiliary 3 OFF.
AUX 4 OFF	Auxiliary 4 OFF.
AUX 5 OFF	Auxiliary 5 OFF.
AUX 6 OFF	Auxiliary 6 OFF.
AUX 7 OFF	Auxiliary 7 OFF.
AUX 8 OFF	Auxiliary 8 OFF.
EXCLUDE ALARMS INTRO	To TOGGLE the zone EXCLUSION, enter the zone number, then press HASH.
ACKNOWLEDGE	Wait to hear the report again, or to continue, press 1.
LISTEN TO REPORTS	To listen to the zone report, press 1.
INTRO	To listen to the emergencies and warnings report, press 2.
	To listen to the AREA ARM report press 3.
	To listen to the excluded zone report press four.
ZONE REPORT LIST	The following zone alarms are current:
WARNING REPORT LIST	The following EMERGENCIES and WARNINGS are current:
EXCLUDE REPORT LIST	The following zone exclusions are current:
RADIO DEVICE LOW BATTERY	A radio device has a low battery and needs to be changed.
EXTERNAL SIREN TAMPER	The external siren cover has been tampered with.
PANEL ENCLOSURE TAMPER	The security system main enclosure has been tampered with.
All OK	All OK.
INVALID	Invalid entry.
RETURN PROMPT	To return press HASH.

V8.0 and later

TELEPHONE REMOTE CONTROL

for V8.0 and later

Remote operation allows:

- 1. Control of Arming/Disarming, AUX 1 to AUX 8 and Zone Excludes.
- 2. Voice updates on Arming state, Zone alarm and excluded state, warning states.

Prompts would be issued when one of these is changed.

TO CONNECT TO THE PANEL BY TELEPHONE

METHOD 1. The connection is initiated by the panel during an alarm message. See page 83.

METHOD 2. The connection is initiated by the user phoning the panel.

HOW TO INITIATE TELEPHONE REMOTE CONTROL

- Phone the panel telephone number and listen for the required number of rings (the normal double ring is counted as one ring) and then hang up.
- 2. Wait 10 seconds and then call the number again within 50 seconds.
- 3. The panel will answer the second call immediately and respond with an audible tone similar to a fax tone.
- 4. Press the 2 button on your telephone to start the session.
- Listen to the voice prompts for instructions.
- 6. When you're done, press * # to hang up.

OPERATION

Example:

When the user calls the panel using the accepted methods and after the panel stops sending the answer tone sequence.

The user first presses key 3 and the panel starts the voice prompt:

■)) This is your SECURITY SYSTEM.

To control the security system press STAR, then enter your USER code, then press HASH.

If the user does this correctly then the voice prompt continues:

■ To arm or disarm the system press 1. To control OUTPUTS press 2. To exclude or include a zone press 3. To listen to reports press 4. To hang up press STAR then PRESS HASH.

The user presses 1 to arm or disarm the system and the voice prompt continues:

1) To arm, Press 1. To disarm, Press 2. To return, Press STAR.

The user presses 1 to arm and the voice prompt continues with either of these messages:

EITHER

(assuming Area 1 was disarmed and that Area 2 is not remote armed)

(iii) Area 1 armed, Area 2 disarmed, To arm or disarm the security system press 1. To control OUTPUTS press 2. To exclude or include a zone press 3. To listen to reports press 4. To hang up press STAR then press HASH.

OR

(assuming Area 1 was already armed)

■) Invalid entry. To arm or disarm the security system press 1. To control OUTPUTS press 2. To exclude or include a zone press 3. To listen to reports press 4. To hang up press STAR then press HASH.

The user presses 2 to control outputs and the voice prompt continues with the message:

■)) Double press the selected auxiliary output 1 to 8. Then press STAR to activate or HASH to turn off the selected output. Press STAR to return.

The user presses 33 STAR * and the voice prompt continues:

Auxiliary 3 ON

The user presses 33 HASH # and the voice prompt continues:

■)Nuxiliary 3 OFF

The user presses 32 HASH (#) (Note that this is an incorrect sequence) and the voice prompt continues:

■ To arm or disarm the security system press 1. To control OUTPUTS press 2. To exclude or include a zone press 3. To listen to reports press 4. To hang up press STAR then press HASH.

The user presses STAR then HASH (* then #) to hangup.



	USER CODE OPTIONS TABLE				EXCLUDE+E toggles Extra Options mode. (Installer Program mode only)						
0.	HOITO IAB			PAGE	14, 15	(Page 74	,,	Page 76		Page 15, 69
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 1 Code	7E Reader 2 Code	8E Reader 3 Code	9E Enable for AutoTime
1 (Master)	P201E	123	ON	ON	X		\times	\times		><	\times
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 11	P210E P211E		ON ON		1						
12	P211E		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 26	P225E		ON ON		-						
27	P226E 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	1	+	1			1		
40 41	P240E P241E		ON ON	-	+				-		
42	P241E 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	-	1	1			1		
54	P254E		ON	1	1	1					
55	P255E		ON	-	1				-		
56	P256E		ON								



OPTIO	N	DESCRIPTION	DEFAULT	PAGI
P00E	u	Follow Me Telephone Number.	none	38
P26E	u	ENTRY DELAY Time 1	20 sec	16
P27E	u	Entry Delay Time 2	6=60 sec	1
P28E	u	EXIT DELAY Time	60 sec	
P29E		SIREN RESET Time	5 min	
P30E		Normal Zone Sensitivity	all zones	17
P31E-3	6F	Vibration Sensitivity, High-Low	none	''
P37E		Long Response Zones - 1 second	none	1
P38E		Long Response Zones - 3 seconds	none	1
			1	
P39E		Double Trigger zones	none	18
P40E		Instant zones	zones 3+	-
P41E		ENTRY DELAY 1 zones	Zone 1	
P42E		HANDOVER zones	Zone 2	19
P43E		Entry Delay 2 zones	none	-
P44E		Lockout zones (RESET output)	All zones	
P45E		AREA 1 zones	All zones	19
P46E		AREA 2 zones	none	
P51E		HOME MODE zones	none	21
* See p		for information on Area operation, Home management	node &	20
P52E		24hr zones	none	21
P53E		Day Mode zones	none	1
P54E		RESET output zones	All zones	22
P55E		STROBE zones	All zones	1
P56E	-	Keypad Sonalert zones	All zones	1
P57E		SIREN zones	All zones	23
P58E		Aux1 / Aux3 zones	none	1
P59E		Aux2 / Aux4 zones	none	
P60E	1E	Entry Beeps	ON	24, 2
	2E	Keyswitch Home Monitor/Disarm	OFF	
	3E	Keyswitch Arm/Disarm	OFF	1
	4E	Tamper Siren lockout	ON	1
	5E	Duress to RESET output	OFF	1
	6E	Auto Exclude zones	ON	1
	7E	Auto keypad display off	OFF	1
	8E	Delayed Aux3, Aux4 outputs	OFF	1
P61E	1E	Tamper to RESET output	ON	26
	2E	Tamper to STROBE output	ON	1
	3E	Tamper to Keypad Sonalert	ON	1
	4E	Tamper to SIREN output	ON	1
	5E	Keypad Panic to RESET output	ON	1
	6E	Keypad Panic to STROBE output	ON	1
	7E	Keypad Panic to Sonalert	ON	1
	8E	Keypad Panic to SIREN output	ON	1

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



All options can be programmed in Installer Program Mode

OPTIO	N	DESCRIPTION	DEFAULT	PAGE
P62E	1E	Shortcut Memory display	ON	27
	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	
P63E	1F	Home Mode alarms to RESET output	ON	28
	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	ON	
	6E	Day Mode to STROBE	OFF	
	7E	Day Mode KP SONALERT (Chime KPX)	OFF	
	8E	Day Mode to SIREN	OFF	
P64E	1E	Brief Home Mode Alarm	OFF	29, 3
	2E	Brief Day Alarm	OFF	
	3E	Home zones Entry Delay2	ON	
	4E	Radio Key SIREN CHIRPS	OFF	
	5E	[not used]	ON	
	6E	Strobe Flash on Home arm by radio	OFF	
	7E	[not used]	OFF	
	8E	[not used]	OFF	
P65E	OL		NONE	31
P66E	1E	Supervised zones Zone Supervision clarm to BESET of	OFF	32, 3
FOOL		Zone Supervision alarm to RESET o/p		02, 0
	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	
P67E		Zone Supervision Time	24 (hours)	33
P68E	1E	Double Press Radio Panic	OFF	34
	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	
	7E 8E	Quiet chirps on radio Arm/Disarm	OFF	
P69E		•		36, 3
1-03E	1E	Flash strobe on medical alarm	OFF	JU, 3
	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	



OPTIO	N	DESCRIPTION	DEFAULT	PAGE
P70E		TELEPHONE NO.1 Primary	NONE	38
P71E		Telephone No.2 Secondary	NONE	
P72E		ACCOUNT NO. 1	0000	39
P73E		Account No. 2	0000	
P74E		REPORT ZONE ALARMS	All zones	40
P75E	1E	Report DURESS alarms	OFF	41
D8 & D16	3 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, P D16. P	92E 1E 75E 9E	Report RADIO TAMPER	ON	
D8 , P D16 , P7	92E 2E	Report RADIO PANIC by User ID	ON	
	92E 3E	Report RADIO Low Battery by device	OFF	
	92E 4E	Report ZONE SUPERVISION FAIL	OFF	
	92E 5E	Report PANEL LOW BATTERY	ON	
	92E 6E	Report MAINS FAIL	ON	
P76E		Report Zone Restorals	All on	40
P77E		Report Misc. Restorals	All on	41
P78E		Report Multiple Zone alarms	NONE	40
P79E		Account No.2 zones	NONE	40
P80E		Tel No. 3 for Test Calls	NONE	39
P81E		Tel No.4 Callback	NONE	
P82E	1E	Send RESTORAL report immediately	OFF	41
	2E	Send RESTORAL after siren time	OFF	
	3E	Send RESTORAL after Disarm & seal	OFF	
	4E	Send RESTORAL after Disarm always	ON	
P83E		TEST CALL Interval	84 (168hrs)	42
P84E		Time before NEXT TEST CALL	6 (12hrs)	
P86E	1E	Disable Dialler	OFF	43, 44
	2E	CONTACT ID FORMAT	ON	
	3E	[not used]	OFF	
	4E	Audible VOICE Format	OFF	
	5E	[not used]	OFF	
	6E	Contact ID + VOICE Format	OFF	
P87E	1E	Split dial Primary/Secondary numbers	OFF	45
	2E	Check for Dial Tone	ON	
	3Е	[not used]	OFF	
	4E	4 Dialling attempts	ON	
	5E	Reduce level - dialling phone number	OFF	
	6E	Reduce level - sending alarm message	OFF	
	7E	Reduce level - connecting to modem	OFF	

OPTIO	N	DESCRIPTION	DEFAULT	PAGE
P88E	1E	Send AREA 1 OPEN/CLOSE REPORTS	OFF	46, 47
	2E	Send AREA 2 Open/Close reports	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	
P89E	1E	ENABLE TEST CALLS	ON	48, 49
	2E	Mains Report Delay (1 hour)	ON	
	3E	Listen-In to Dialler	OFF	
	4E	Swinger shutdown	ON	
	5E	Line Fault Monitor	OFF	
	7E	[not used]	OFF	
P90E	1E	Enable Remote Access	OFF	50, 51
332	2E	Enable First Call Mode	OFF	55, 57
	3E	Enable Remote Arming	OFF	
	3E 4E	Enable Remote Disarming	OFF	
	4⊑ 5E	Enable Remote AUX control	OFF	
	6E	Enable Remote Status reporting	OFF	
	7E	Enable Remote Event Report	OFF	
	7 E	Enable Callback Mode	OFF	
P91E	OL	Required rings to answer	1	52
P92E		Report Misc. Alarms 9-14 (D8 only)	1,2,5,6 on	41
P93E		Report Misc. Restorals 9-14 (D8 only)	All on	
P94E		"No Memory Warning" zones	none	52
P95E		CLEAR RADIO DEVICES		53
P96E		CLEAR MEMORY		
P97E		CLEAR PANEL OPTIONS (restore Factory	Defaults)	
P98E		CLEAR User codes, Radio Keys, Acces	s Cards	
P99E		Program the INSTALLER CODE	000000	53
P101E-P1	116E	PROGRAM RADIO DEVICES 1–8 or 1–16	none	73
P117E	1E	Enable Output Expander	OFF	54, 55
	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	
P118E		Output Expander zones	none	
P119E		Output Expander alarm zones	none	
P120E	1E	Latched keyswitch input	OFF	56
	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	
ı	8E	Area2 Disarm by Keyswitch Allowed	OFF	



OPTIO	٧	DESCRIPTION	DEFAULT	PAGE
P121E	1E	Zone alarms to AUX1 (P58E selects zones)	ON	58
	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	
P122E	1E	Zone alarms to AUX2 (P59E selects zones)	ON	60
	2E	Zone Supervision alarms to AUX2	OFF	
	3E	Radio key Aux Button TOGGLE	OFF	
	4E	Radio key Aux Button PULSE	OFF	
	5E	Telephone Line fault to AUX2	OFF	
	7E	Door Open Too Long (DOTL) alarm to AUX2	OFF	
	8E	Reader [x] output to AUX2	OFF	
P123E	1E	Zone Alarms to AUX3	OFF	62
	3E	Enable AUX3 for AutoTime	OFF	
	4E	Radio Key Panic Pulses AUX3	OFF	
	8E	Reader [x] output to AUX3	OFF	
P124E	1E	Zone Alarms to AUX4	OFF	64
	2E	Enable Extension Sonalert	OFF	
	3Е	Enable AUX4 for AutoTime	OFF	
	4E	Radio Key Panic Pulses AUX4	OFF	
	5E	Enable AUX4 as Fail To Communicate o/p	OFF	
	8E	Reader [x] output to AUX4	OFF	
P125E		Enable hardwired zones	All on	68
P126E	1E	Enable Double key PANIC	ON	68
1 1202	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	
	8E	Disable One Digit At A Time display	ON	
Dioof	1E		OFF	68
P129E		0k EOL resistors		00
	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	
P141E	1E	Area 1 Armed to AUX1	OFF	59
	2E	Area 2 Armed to AUX1	OFF	
	3E	Home Armed to AUX1	OFF	
	4E	Keypad toggle AUX1	OFF	
	5E	Telephone remote control of AUX1	OFF	
	6E	[not used]	OFF	
	7E		OFF	
	}	[not used]		
	8E	Pulse AUX1	OFF	

P142E 1E	Area 1 Armed to AUX2 Area 2 Armed to AUX2 Home Armed to AUX2 Keypad toggle AUX2 Telephone remote control of AUX2 [not used] [not used] Pulse AUX2 Area 1 Armed to AUX3 Area 2 Armed to AUX3 Home Armed to AUX3	OFF OFF OFF OFF OFF OFF OFF	61
3E 4E 5E 6E 7E 8E P143E 1E 2E	Home Armed to AUX2 Keypad toggle AUX2 Telephone remote control of AUX2 [not used] [not used] Pulse AUX2 Area 1 Armed to AUX3 Area 2 Armed to AUX3 Home Armed to AUX3	OFF OFF OFF OFF OFF OFF	63
4E 5E 6E 7E 8E P143E 1E 2E	Keypad toggle AUX2 Telephone remote control of AUX2 [not used] [not used] Pulse AUX2 Area 1 Armed to AUX3 Area 2 Armed to AUX3 Home Armed to AUX3	OFF OFF OFF OFF OFF	63
5E 6E 7E 8E P143E 1E 2E	Telephone remote control of AUX2 [not used] [not used] Pulse AUX2 Area 1 Armed to AUX3 Area 2 Armed to AUX3 Home Armed to AUX3	OFF OFF OFF OFF	63
6E 7E 8E P143E 1E 2E	[not used] [not used] Pulse AUX2 Area 1 Armed to AUX3 Area 2 Armed to AUX3 Home Armed to AUX3	OFF OFF OFF	63
7E 8E P143E 1E 2E	[not used] Pulse AUX2 Area 1 Armed to AUX3 Area 2 Armed to AUX3 Home Armed to AUX3	OFF OFF OFF	63
8E P143E 1E 2E	Pulse AUX2 Area 1 Armed to AUX3 Area 2 Armed to AUX3 Home Armed to AUX3	OFF OFF	63
P143E 1E 2E	Area 1 Armed to AUX3 Area 2 Armed to AUX3 Home Armed to AUX3	OFF OFF	63
2E	Area 2 Armed to AUX3 Home Armed to AUX3	OFF	63
ł	Home Armed to AUX3	+	
l			
3E	Kouped toggle ALIV2	OFF	
4E	Keypad toggle AUX3	OFF	
5E	Telephone remote control of AUX3	OFF	
6E	[not used]	OFF	
7E	[not used]	OFF	
8E	Pulse AUX3	OFF	
1E	Area 1 Armed to AUX4	OFF	65
2E	Area 2 Armed to AUX4	OFF	
3E	Home Armed to AUX4	OFF	
P144E 4E	Keypad toggle AUX4	OFF	
5E	Telephone remote control of AUX4	OFF	
6E	[not used]	OFF	
7E	[not used]	OFF	
8E	Pulse AUX4	OFF	
P145E	AUX1 Timer (1-99 sec)	20 sec	59
P146E	AUX2 Timer (1-99 sec)	20 sec	61
P147E	AUX3 Timer (1-99 sec)	20 sec	63
P148E	AUX4 Timer (1-99 sec)	20 sec	65
4E	Keypad toggle AUX5	OFF	66
5E P151E	Telephone remote control of AUX5	OFF	
7E	Reader Output to AUX5	OFF	
8E	PULSE AUX5	OFF	
4E	Keypad toggle AUX6	OFF	66
5E P152E	Telephone remote control of AUX6	OFF	
7E	Reader Output to AUX6	OFF	
8E	PULSE AUX6	OFF	
4E	Keypad toggle AUX7	OFF	66
5E P153E	Telephone remote control of AUX7	OFF	
7E	Reader Output to AUX7	OFF	
8E	PULSE AUX7	OFF	_
4E	Keypad toggle AUX8	OFF	66
5E P154E	Telephone remote control of AUX8	OFF	
7E	Reader Output to AUX8	OFF	
8E	PULSE AUX8	OFF	
P155E	AUX5 timer	20 sec	67
P156E	AUX6 timer	20 sec	
P157E	AUX7 timer	20 sec	
P158E	AUX8 timer	20 sec	



OPTIO	N	DESCRIPTION	DEFAULT	PAGE
P160E		Alarm Siren Volume	99	67
P161E		Fire Siren Volume	99	
P162E		Chirp Siren Volume	16	
	1E	Home	OFF	84
	2E	Office	OFF	
	3E	Work	OFF	
	4E	Family 1	OFF	
	5E	Family 2	OFF	
P198E	6E	Family 3	OFF	
	7E	System 1	OFF	
	8E	System 2	OFF	
	9E	System 3	OFF	
	10E	Ness Security System	OFF	
	11E	Ness Corporation	ON	
P199E		Serial Output Options 1E-6E	All off	75

ACCESS CONTROL OPTIONS

P300E		DEFAULT ALL ACCESS CONTROL C	PTIONS	76
P301E	1E	Use reader addresses	OFF	77
	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	78
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	

REAL TIME CLOCK options can be programmed in User Program Mode.						
P340E	Real Time Clock set MINUTES	00 (00-59)	70			
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)				
P345E	Real Time Clock VIEW DAY OF WEEK	(Sun=1)				

OPTION		DESCRIPTION	DEFAULT	PAGE
AUX OU	TPUTS	5		
P318E	1E	Ultraprox Reader 1 to AUX1	OFF	80
	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 5E 6E 7E		Ultraprox Reader 2 to AUX4	OFF	
		Ultraprox Reader 2 to AUX5	OFF	
		Ultraprox Reader 2 to AUX6	OFF	
		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	



OPTION		DESCRIPTION	Default
AutoTi	mer		
P350E		Minutes 0-59	
P351E		Hours 0-23	
P352E		Days (1=Sunday)	
P353E	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	
P354E	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
AutoTi	mer 4	1	
P365E		Minutes 0-59	
P366E		Hours 0-23	
P367E		Days (1=Sunday)	
P368E	1E	AREA 1 arm	
P368E	2E	AREA 2 arm	
	3E	HOME arm	
	4E	Code Enable	
	5E	Code Disable	
	6E	KEYPAD Beeps	
	7E	RESET O/P Beeps	
	8E	Extend AutoTIME	
P369E	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
AutoTir	ner 7	7	
P380E		Minutes 0-59	
P381E		Hours 0-23	
P382E		Days (1=Sunday)	
P383E	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	
P384E	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	

AutoTi	mer 2	2
P355E		Minutes 0-59
P356E		Hours 0-23
P357E		Days (1=Sunday)
P358E	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
P359E	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

AutoTi	mer !	5	
P370E		Minutes 0-59	
P371E		Hours 0-23	
P372E		Days (1=Sunday)	
P373E	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	
P374E	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	

AutoTir	ner 8	3	
P385E		Minutes 0-59	
P386E		Hours 0-23	
P387E		Days (1=Sunday)	
P388E	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	
P389E	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	

AutoTi	mer (3	
P360E		Minutes 0-59	
P361E		Hours 0-23	
P362E		Days (1=Sunday)	
P363E	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	
P364E	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	

AutoTi	ner (6
P375E		Minutes 0-59
P376E		Hours 0-23
P377E		Days (1=Sunday)
P378E	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
P379E	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	
P390E		AutoTime warning (1-99 min)	00
P392E	1E	AutoTime codes Option	OFF
P121E	3E	Enable AUX1 for AutoTimers	OFF
P122E	3E	Enable AUX2 for AutoTimers	OFF
P123E	3E	Enable AUX3 for AutoTimers	OFF
P124E	3E	Enable AUX4 for AutoTimers	OFF
P145E		AUX1 Pulse Time (1-99 sec)	20 sec
P146E		AUX2 Pulse Time (1-99 sec)	20 sec
P147E		AUX3 Pulse Time (1-99 sec)	20 sec
P148E		AUX4 Pulse Time (1-99 sec)	20 sec

See pages 68, 69 for descriptions of AutoTimer related options.

CONTROL PANEL PACKING LIST

- 1 D8XD or D16XD Main board
- 1 Housing
- 1 Keypad (not supplied with all models)
- 1 Power supply (Australia only)
- 1 12V 7Ah battery (optional)
- 1 Dialler telephone lead
- 1 User manual
- 1 Installer manual
- 9 or 17 End Of Line resistors 2.2k (D8x/D16x)
- 1 Lead assembly for battery
- 1 Lead assembly for internal tamper
- 2 Housing cover screws
- 4 Circuit board standoffs

SPECIFICATIONS

Plastic housing dimensions	. 235w x 300h x 90d mm.
· ·	. 15V DC 2A via 17VAC-15VDC converter.
1 ower requirement	or 17VAC/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.
INPUTS / OUTPUTS	
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	.3.
LISTEN header	. Output for audio alerts and dialler listen-in.
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 data input.output and 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 $500\mbox{mA}.$

APPROVALS

EMC COMPLIANCE

EN 50130-4:1996 Part 4: Electromagnetic compatability. Electrostatic Discharge, Radiated RF Immunity, Electrical Fast Transient/burst. Surge Immunity, Conducted RF Immunity, Voltage Dips and Interruptions, Mains Supply Variations.

AS/NZ CISPR 22:2002- Class B, Electromagnetic Radiation, Terminal Disturbance Voltage.

EN61000-6-3:2001, Harmonic Current Emissions, Voltage fluctuations and Flicker.

TELECOM

TBR21, EU. PTC200, NEW ZEALAND TELECOM . AS ACIF S002, AUSTRALIA

SAFETY

EN60950:2000 inc Country Deviations, Safety of Information Technology Equipment AS/NZ3260-1993 incl. AMDTS 1,2,3 &4. TS001-1997 ACA Australian Communications Authority





RELEASE NOTES

Manual 890-017 Rev 1.5 Nov 2015

- P97E Clear Panel Options also defaults radio devices.
- P94E No Memory warning zones. The option applies only to zones 1-8 (both D8x and D16x)

V8.4 Sep 2015

Manual 890-017 Rev 1.4

- Changed operation of P117E 6E
- Wiring diagram caters for 15VDC and Dual input (17VAC/20VDC) boards.
- Added wiring diagrams for sensors, page 9
- Bug fix in V8.0 P198E, P199E had been shifted to to P197E, P198E
- Bug fix V8.3 Day of Week Saturday with Autotimers display on Navigator fixed.

V8 Feb 2015

New manual 890-017 Rev 1.0 MAJOR VERSION RELEASE

- · New PCB layout
- Now with 8 AUX outputs (1-4 on relay board or 1-8 on output expander/s)
- Added modem chip, use any modem in 300baud mode
- Voice alarms and voice prompts using a preset voice message library
- Real time clock onboard
- · Serial port different connector, now 4 pin
- Listen-in header changed
- Required power supply is now 15VDC for efficiency (Do not use 17VAC)
- Tamper/Prog link moved to corner of pcb
- Many new program options including

P117E 5E, used in combination with P117E 2E gives three sets of output configurations for output expander/s. P151E–P154E, 4E–8E AUX5–AUX8 output options P155E–P158E AUX5-AUX8 Timers

P318E, P328E, P338E, 5E-8E Reader options for AUX-5-8

P117E 6E User Code 13-15 Toggle or Pulse

P160E Alarm Siren Level

P161E Fire Siren Level

P162E Chirp Siren Level

P305E 3E DOTL Timer in Minutes

P305E 4E DOTL Timer in Hours

P354E-P389E Autotimer using AUX5-AUX8

P123E 1E Zone Alarms to Aux3 P124E 1E Zone Alarms to Aux4

P123E 4E Radio Key Panic Pulses AUX3 P124E 4E Radio Key Panic Pulses AUX4

P87E 5E Reduce tone output when dialling telephone number

P87E 6E Reduce tone output when sending alarm message

P87E 7E Reduce tone output when connecting to modem

P198E System Name

V7.8.6 Oct 2014

Changes to manual only. Page 67, Enable/disable user codes by AutoTime applies to keypad codes only, not radio keys or prox fobs.

V7.8.5 Mar 2014

Changes to manual only. Page 80, digit zero on remote phone tells panel that commands follow.

V7.8.4 Feb 2014

Changes to manual only. Page 53, P96E Note: This option clears only the 20 event memory as read by KPX and LCD keypads. Ness Navigator touch screen keypad's 80 event memory is not affected.
P54, improved description of User Code operation of outputs on Expander 2.

V7.8.3 May 2013

Changes to manual only. Page 54, corrected reference to J5 connector - now refers to AUX connector.

V7.8.2 Apr 2013

. Changes to manual only. Added RCM mark. Internal clock timing warning page 67.

V7.8.1 Jan 2013

Changes to manual only. Removed reference to RK3 radio key.

V7.8 April 2012

- 1. Allow * & # on serial ascii input.
- 2. Add version & model to status list
- 3. P68E 3E Radio 56bit, now defaulted ON

Added instructions for programming via NessPD

V7.7 January 2012

Fixed Leap year issues.

V7.6 November 2011

Fixed Day Mode, triggering Aux2 did not timeout after 2sec but followed zone state

Fixed Real Time Clock speed up. Hardware change.

V7.5 September 2011

Fixed fire siren turnoff. It was changing to standard siren instead of switching off.

Allow NAVIGATOR v2 keypads to display time stamped event memory. Up to 80 events are displayed with TIME, DATE and EVENT. ZONE NAMES and USER NAMES are also displayed. The NAVIGATOR allows the user to go back and forth through the event memory.

V7.4 April 2011

- 1. Added Program Option P69E 1E: Flash Strobe on Medical alert.
- 2. Fixed AUX2 turning off even though P121E 6E was selected.

V7.3 July 2010

- 1. Radio Processing. The time of an internal wait timer has been reduced so that successive events are processed faster to prevent posible missed
- 2. Aux1 pulsing Aux3 and Aux2 pulsing Aux4 issue fixed. The NAVIGATOR shows the AUX states, which has made the effect visible.
- 3. Ascii messages now include D8x output results. New messages are added to indicate the states of the D8x outputs - including the AUX, Siren, Strobe, Reset etc.

These new messages will allow the NAVIGATOR AUX 1 to 4 controls to also control C-Bus outputs, when used with the new miniCentral C-Bus unit.

4. Watchdog Timer. The watchdog timer operation has been changed during up/download via modem. An Eeprom with slow programming times could initiate the watchdog - stopping up/download from working

V7.2 May 2010

Allow LED keypads to operate correctly.

KEYPADS can be used in the following combinations:

- LED & KPX (or SATURN).
- KPX & NAVIGATOR.
- LED & NAVIGATOR keypads cannot be used on the same installation

V7.1 April 2010

- 1. Extra keypad signal added to allow NAVIGATOR to show RSSI of pendants and detectors in program modes.
- 2. Minor database number update allows older NESSCOMS versions to give 'a need to update' warning.

V7.0 April 2010

- 1. Added support for Ness Navigator Touch Screen keypads.
- 2. Added P126E 8E Disable one digit at a time display. 3. MEMORY DISPLAY OF PANIC, FIRE, MEDICAL.

When viewing memory the display of PANIC, MEDICAL, FIRE has been changed to:

PANIC = Exclude + Zone 1 ON MEDICAL = Exclude + Zone 2 ON FIRE = Exclude + Zone 3 ON

On a NAVIGATOR this enables these memory events to be distinguished.

- 4. Low Battery detection improved.
- 5. Tamper Flash Rate. On v6.2 the tamper display flashes at a different rate to help distinguish the tamper type. This changes to a single flash rate if a NAVIGATOR touchscreen is connected.
- 6. ADSL Interference. Improved rejection of high frequency ADSL signals. 7. RTC. Stopped the resetting of RTC seconds on Prog Mode exit. This could cause the RTC to be out by up to 1 minute every time Program mode exited.

v6.2 October 2009

Changed Options

- 1. P64E 6E is now used for Strobe Flash on Home Arming by Radio.
- 2. AutoTimers 7 & 8 now allow Day Mode Auto-arming/disarming. Options P383E 3E, P384E 3E, P388E 3E and P389E 3E changed to Brief Day Mode arming/disarming. See pages 69, 85.

Defaults changed

P63E 3E Home Mode Sonalert, now defaulted ON.
P126E 1E KPX Keypad double key Panic, now defaulted ON.

P301E 2E Arm With Double Read, now defaulted ON.

Operational Changes

Enhanced Tamper display on the keypad/s in normal mode and memory mode. See Keypad Display Indicators tables on page 10.

INSTALLATION RECORD

D, 9
DIALLER SECLIBITY ALARM PANEL



NESS D8 ALARM CONTROL PANEL
NESS D16 ALARM CONTROL PANEL

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

		P26E ENTRY DELAY TIME 1			Seconds											_		
P27E ENTRY DELAY TIME 2 Seconds			Ξ	7		ZONE ASSIGNMENT				5	PUT	UTPU	5					
	P28E EXIT DELAY TIME Seconds			DELA	DELA	VER	_			Я	Œ	OUTP	E OUT	ERT 0	JUTPL	dialler		
	P29E SIREN RESET TIME Minutes			NTRY	NTRY	ANDO	ISTAN	REA 1	REA 2	ONITC	4 HOU	ESET (TROB	ONALE	IREN (eport (
zoı	NES	DEVICE TYPE PIR, Reed switch, etc	DE	ESCRIPTION	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)
	1	2, 5				+-						Ē		_			_	$\overline{}$
	2																	
	3																	
D16	4																	
∣∞ઇ	5																	
D8	6																	
	7																	
	8																	
	9																	
	10																	
	11																	
D16	12																	
	13																	
	14																	
	15																	
	16																	

Seconds

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	OPTION No	Extra Options Assigned E.g. Radio Code,					
CODE	OF HON NO	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						

