SMART**LIVING**

CEI 79-2
EN 50131-3
EN 50131-6
CEB T01

CE

Live Smart with Ness SmartLiving

Ness SmartLiving
Anti-intrusion Control Panels & Security Systems

SHORT FORM USER & INSTALLER MANUAL   REV 1

Quick Guide for everyday
User operations

Quick Guide for basic
installation programming

Instructions based on the nCode matrix LCD keypad

Ness

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Quality
ISO 9001
NSW Head Office only

SMARTLIVING

CEI 79-2
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Ness Smartliving
Short Form User & Installer Manual

Document Part No: 890-033

Maintenance jumper

SERV   RUN

Serial port for PC programming

106-409 SmartLogos Voice Module
connection port

Optional tamper input N/O

MEMORY CARD   TAMPER

Internal tamper
(activated by panel
lid)

SERV RUN

BATTERY

Backup battery
connection.
Up to 12V 7Ah

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
⏚	PSTN				+	D	S	–	NO	NC	COM	+AUX	OC1	OC2	+AUX	⏚	T1	⏚	T2	⏚	T3	⏚	T4	⏚	T5	+AUX	AC

Handset

Phone line in

6k8   6k8   6k8   6k8

17VAC
Power Supply

+12V supply for PIRs and other
accessories. 3 outputs available.
900mA max. total

Black (-)
Green (S)
Yellow (D)
Red (+)

nCode or Alien keypad
5 max.

12V Siren

12V Strobe

6k8

SINGLE ZONE
PER TERMINAL

Hardwired PIR or
other device

+   –   ALARM   TAMPER

Single zone per terminal,
use a 6k8 resistor

Flex I/O Expander
505 panel 4 max.
515 panel 10 max.

12V Screamer

OC1 / OC2 outputs
150mA max. each

Prox Reader
10 max.

Nexus GSM/GPRS
Module. 1 max.

Radio Transceiver
505 panel 4 max.
515 panel 10 max.

IVY-BF Siren
10 max.

Up to 700m @125 kbps
Up to 300m @250 kbps

Add IB100 Bus Isolator/
Repeaters for bus protection
and increased bus length.

T1   ⏚

∗

∗ Join and insulate inside
the panel.

+AUX ⏚   +AUX ⏚

3k9   6k8

+   –   ALARM TAMPER   +   –   ALARM TAMPER

For zone doubling, use one
3k9 and one 6k8 resistor

WIRING TWO ZONES PER TERMINAL

Hardwired PIR or   Hardwired PIR or
other device   other device
ZONE 1   ZONE 2

SMARTLIVING ZONE DOUBLING SUMMARY

- Run a 4 core cable to each PIR
- PIR power goes to +AUX and ⏚
- A 3k9 resistor across the NC alarm terminals on PIR 1
- A 6k8 resistor across the NC alarm terminals on PIR 2
- One Alarm wire from PIR1 to the zone terminal (eg, T1)
- One Alarm wire from PIR2 to the zone ground ⏚
- Join the two remaining alarm wires together (and insulate
  the joint with a terminal block)

LED Indicators

Red LED - indicates the armed status

Yellow LED - indicates system faults (Press 🏢⚠ to view faults)

Blue LED - indicates status of the zones (On = ok to arm)

Green LED - indicates mains power status (On = mains ok)

Keypad Keys

F Keys. Each provides a shortcut to the function above it on the LCD display. Also activate Fire, Medical & Emergency alarms.

Numeric keypad

OK button and Navigation keys for entering and scrolling menus.

ENABLE key used to select options ON

C Key to go back one step in user and programming menus.

DISABLE key used to select options OFF

ESCAPE Key exits a menu without saving changes.

4

LCD Matrix Display

The 4 line LCD matrix display provides system information in an easy to read format.
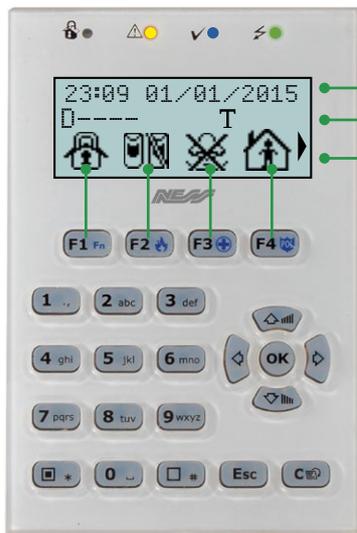
Line 1
In disarmed and armed mode, shows the time and date.
If there has been a recent alarm the event is shown,
eg. `Panel T03`
The time display returns next time you arm/disarm.

Line 2
Indicates the armed status of the partitions and several other system events.
In the example shown on this keypad `D----` indicates that partition 1 is disarmed and partitions 2-5 are not assigned to this keypad.
`T` flashing indicates a telephone line fault (in this case the phone line is not connected).

Line 3, 4
The bottom lines display function icons which are actioned using the shortcut keys F1–F4.

Press ▷ to scroll the display sideways and show up to 12 function icons.
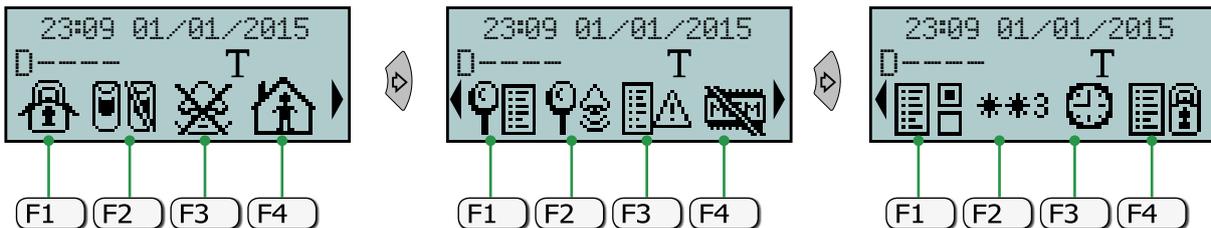
Press an F key for at least 1 sec to select a function

ICON	F key	Description
🔒	F1	QUICK ARM. A fast and easy way to arm partition 1 without using a code.
📱	F2	ZONE BYPASS MENU. Allows you to temporarily Bypass (Exclude) selected zones. This menu will ask for your user code)
✕	F3	STOP ALARMS. Resets any outputs triggered by an alarm. (This menu will ask for your user code)
🏠	F4	ARM STAY MODE (Home Mode). Arms perimeter zones. (This menu will ask for your user code)
Press ▷ to scroll the display		
📞	F1	EVENT LOG. View the log of arm/disarm events, zone bypass, system alarms with time and date stamps. Scroll using up and down keys ▲ ▼
🔔	F2	ALARM LOG. View the log of alarm and tamper events with time and date stamps. Scroll using up and down keys ▲ ▼
⚠	F3	VIEW FAULTS. View current system faults (eg, low battery, line fail). Scroll using up and down keys ▲ ▼
▨	F4	CLEAR MEMORY. Deletes the log of alarm, tamper, system alarm events. Does not delete the arm/disarm event log. Clear Memory also stops the siren outputs if running. (This menu will ask for your user code)

LCD Matrix Display

ICON	F key	Description
Press ◈ to scroll the display		
🗎🖳	F1	OUTPUT MENU. Control the relay outputs and terminals programmed as outputs. Turn outputs on and off using the star and hash keys ▣ ＊ ▢ ＃ (This menu will ask for your user code)
✳✳3	F2	CHANGE PIN Menu. Change user codes. (This menu will ask for your user code)
🕐	F3	CLOCK Menu. Change the time and date. (This menu will ask for your user code)
🗎🔒	F4	ARM/DISARM Menu. Allows you to arm/disarm partitions with a choice of arming modes. (This menu will ask for your user code)

Keypad Beeps

KEYPAD BEEPER	DESCRIPTION
Single beep ♩	Any key press
8 beeps repeated ♩ x8 ... ♩ x8 ...	During Entry Delay
3 beeps repeated ♩ x3 ... ♩ x3...	During Exit Delay
4 fast beeps repeated ♩ x4 ... ♩ x4...	During the last 40 sec of Exit Delay
1 beep repeated ♩ ... ♩ ...	Pre-arm Timer running
Continuous beep ♩–––	Activation of the output on terminal T1 on the keypad

Default user code 1:
0001

Before you start.
Red LED should be off (panel is disarmed)
Yellow LED should be off (no system alarms)
Blue LED should be on (all zones sealed)
Green LED should be on (power is ok)

Red LED is off and 'D' shows that partition 1 is disarmed

```
23:09 01/01/2015
D----        T
```
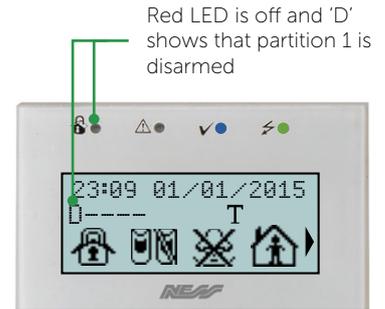
Quick Arming
This quick and easy one-step method arms partition 1 in Away mode.

1. Press and hold the (F1) shortcut key

You will see:

The Red LED will turn on.

```
23:09 01/01/2015
A----        T
```

Ħ shows that partition 1 is armed in Away mode

You will hear: Beeps during exit delay

Arming by Code
Another easy method to arm partition 1 in Away mode. Just enter your user code.

1. Enter your user code.

You will see:

The Red LED will turn on.

```
23:09 01/01/2015
A----        T
```

Ħ shows that partition 1 is armed in Away mode

You will hear: Beeps during exit delay

Arming

Arming by Menu

This method gives you full control over the arming/disarming process and lets you choose the partition and type of arming.

1. Press ◊ twice to scroll the display to the third icon screen.

```
23:09 01/01/2015
D----        T
◀▤▯ ✳✳3 ⏰ ▤▯
```
F1   F2   F3   F4

2. Press F4 to select the arming menu.

3. Enter your user code.

```
Type in code
****--
```
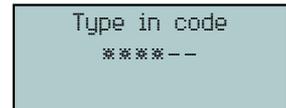
4. Use the △ ▽ keys to choose an action for partition 1 then press OK

```
Arm/Disarm op.
PARTITION  001
Disarm
D----
```

N = none
A = Away
S = Stay
I = Instant
D = Disarm
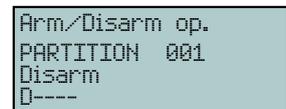
Use the ◁ ▷ keys to select another partition.

For example if you choose Away mode.

You will see:

The Red LED will turn on.

```
23:09 01/01/2015
A----        T
🏠 ▯▯ ✖ 🏠 ▶
```

A shows that partition 1 is armed in Away mode

You will hear: Beeps during exit delay

Disarming

To disarm, simply enter your code.

1. Enter your user code.

You will see:

The Red LED will turn off.

```
23:09 01/01/2015
D----        T
🏠 ▯▯ ✖ 🏠 ▶
```
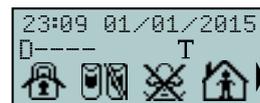
D shows that partition 1 is disarmed

If there has been an alarm the Red LED and D on the display will flash until the next time you arm or until the memory is cleared.

How to silence the sirens

Handy Hint.

For example, you can use the Stop Alarms shortcut to silence the sirens while leaving the system armed.

The Stop Alarms shortcut lets you silence the sirens without affecting the armed/disamed status of the panel.
Stop Alarms turns off any outputs activated by zone, tamper and system alarms.

```
23:09 01/01/2015
D----         T
```

1. Press `F3` to select Stop Alarms.

`F1` `F2` `F3` `F4`
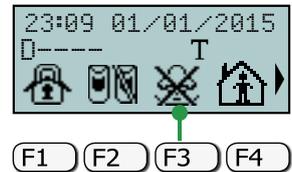
2. Enter your user code.

```
Type in code
****--
```

You will hear: Any sirens running will stop.

9

User Codes

FACTORY DEFAULTS

User code 1: 0001
User code 2: 0002
up to...
User code 30: 0030

INFO
Program up to 30 user codes.

NOTES
Use the Change PIN menu to change users codes.

User codes must first be enabled in installer program mode.

Changing User Codes/PIN

SmartLiving 505 & 515 control panels have 30 user codes which can be easily changed from the keypad.

1. Press ◊ twice to scroll the display to the third icon screen.

```
 23:09 01/01/2015
D----         T
◀▤▦ ✳✳3 🕐 ▤▦
```

(F1) (F2) (F3) (F4)
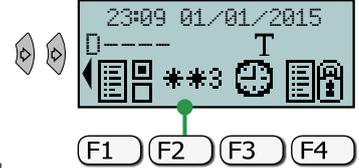
2. Press (F2) to select the Change PIN menu.

3. Enter your user code.

```
 Type in code
    ✳✳✳✳--
```
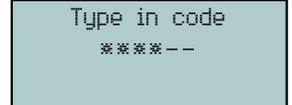
4. Use the ⬦ ⬦ keys to choose a user code then press (OK)

```
Change PIN
CODE    001
CODE    002
```
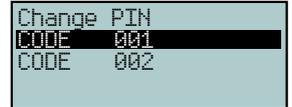
5. Enter a new PIN then press (OK)

```
Code    001
Enter new PIN
    ------
```

6. Enter the new PIN again then press (OK)

```
Code    001
Confirm new PIN
    ------
```

10

To Enter Installation Programming mode

To enter installation program mode

```
Type in code
  ****--
```

Enter your Installer Code then press (OK)

The default installer code is 9999.

To exit installation program mode

```
EXIT? OK = YES
```

Press ESC until you see the exit message then press (OK)

Once you exit program mode the keypad will blank out for a few seconds while the panel rescans all bus devices.

Maintenance Jumper

Set the maintenance jumper to the SERV position during programming.

In this mode:
• The keypad display will show the bus address of the keypad.
• Bus devices will be auto-enrolled
• Outputs will be inactive.

Set the jumper to SERV during initial programming of the system.

SERV

Remember to return the jumper to the RUN position when you're done.

RUN

Exit / Entry Delay

NOTES
Use the ⬦⬦ ⬦⬦ keys to scroll up and down.

The panel must be in the disarmed state to enter programming.

Use the Installer programming menu for easy programming of panel options via keypad.

1. Enter your Installer Code then press (OK)

```
23:09 01/01/2015
D----      T
🔒 📱 ✖ 🏠▸
```

2. Scroll to **Partitions** then press (OK)

```
PROGRAMMING
Timers
Partitions
Codes
```

3. Choose **Partition 001** then press (OK)

```
PARTITIONS
PARTITION  001
PARTITION  002
PARTITION  003
```
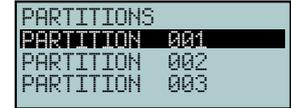
4. Choose **Exit Time** or **Entry Time** then press (OK)

```
PARTITION  001
Description
Exit time
Entry time
```
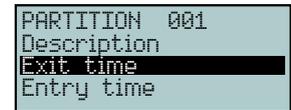
5. Enter a new exit time, eg, '040' then press (OK)
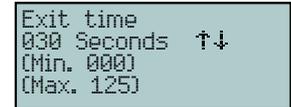
Use the ◁ ▷ keys to move the cursor.

Use the ⬦⬦ keys to select Seconds or Minutes.

```
Exit time
030 Seconds  ↑↓
(Min. 000)
(Max. 125)
```

Siren & Strobe Timer

NOTES
Use the ⬦⬦ ⬦⬦ keys to scroll up and down.

The panel must be in the disarmed state to enter programming.

1. Enter your Installer Code then press (OK)

```
23:09 01/01/2015
D----      T
🔒 📱 ✖ 🏠▸
```

2. Scroll to **Outputs** then press (OK)

```
PROGRAMMING
Outputs
Walk test
Telephone
```
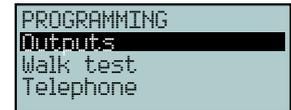
3. Choose **RELAY**, **Output 1** or **Output 2** then press (OK)

```
Outputs
RELAY (Ext Siren)
Output 1 (Strobe)
Output 2 (IntSiren)
```

4. Choose **Monostable Time** then press (OK)

```
RELAY (Ext siren)
Description
Output Options
Monostable time
```

5. Enter a new exit time, eg, '004' then press (OK)

Use the ◁ ▷ keys to move the cursor.

Use the ⬦⬦ keys to select Seconds or Minutes.

```
Monostable time
004 Minutes  ↑↓
(Min. 000)
(Max. 125)
```

Central Station Monitoring
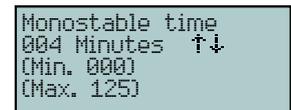
Program a Telephone Number & Account Number

FACTORY DEFAULTS

Installer code 1: 9999
Telephone Numbers: none
Account Numbers: 0000

NOTES

• Use the ⬆ ⬇ keys to scroll up and down.

• The panel must be in the disarmed state to enter programming.

• Telephone numbers can be up to 20 digits long.

• Alarms can be reported to a central station via Contact ID or to mobile phone numbers to report alarms by voice.*

*The optional 106-409 SmartLogos30M Voice Module is required for voice monitoring.

• HINT.
Telephone numbers 003 and onwards are pre-configured for Voice dialling. ie, open/close reports are disabled and most system alarms are not sent.

• Program up to 15 telephone numbers for alarm reporting back-to-base, voice reporting or SMS alarm reporting.
• Program the reporting options for each telephone number
• Program your 4 digit account number for back-to-base reporting

1. Enter your Installer Code then press (OK)

```
Type in code
  ****--
```

2. Scroll to **Telephone** then press (OK)

```
PROGRAMMING
Telephone
Events
Timers
```

3. Choose **Select Number** then press (OK)

```
Telephone
Select Number
Number of rings
Max.num.attempts
```
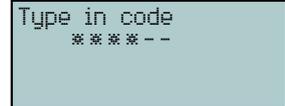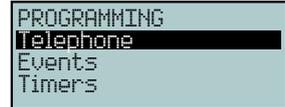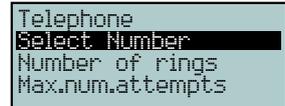
4. Choose **NUMBER 001** then press (OK)

Telephone Numbers 001 & 002 are pre-configured for central station monitoring.

```
Select Number
NUMBER  001
NUMBER  002
NUMBER  003
```

5. Choose **Number** then press (OK)

```
NUMBER  001
Number
Description
Type
```
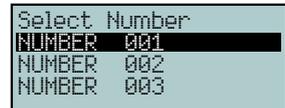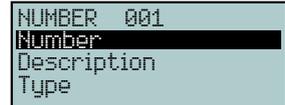
6. Enter your central station telephone number then press (OK)

```
NUMBER  001
0398756400
```
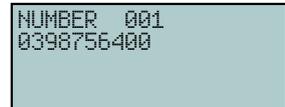
7. Choose **Account Code** then press (OK)

```
NUMBER  001
Description
Type
Account Code
```

8. Enter your 4 digit account number then press (OK)

```
Account Code
1234
```

Voice Monitoring
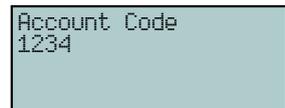
Program a Telephone Number, Account Number, alarm type

FACTORY DEFAULTS

Installer code 1: 9999
Telephone Numbers: none
Account Numbers: 0000

NOTES

• Use the ⬦⬦ ⬦⬦ keys to scroll up and down.

• The panel must be in the disarmed state to enter programming.

• Telephone numbers can be up to 20 digits long.

• Telephone numbers can be up to 20 digits long.

• A telephone number can be a central station number for back-to-base monitoring or a mobile phone number to report alarms by voice.*

*The optional 106-409 SmartLogos30M Voice Module is required for voice monitoring.

• HINT.
Telephone numbers 003 to 015 are pre-configured for Voice dialling. ie, open/close reports are disabled and most system alarms are not sent.

Program up to 13 telephone numbers for alarm reporting by voice call.*

1. Enter your Installer Code then press (OK)

```
Type in code
   ****--
```

2. Scroll to **Telephone** then press (OK)

```
PROGRAMMING
Telephone
Events
Timers
```

3. Choose **Select Number** then press (OK)

```
Telephone
Select Number
Number of rings
Max.num.attempts
```
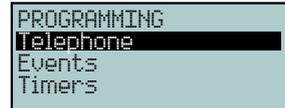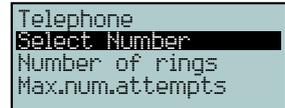
4. Choose **NUMBER 003** then press (OK)

Telephone Numbers 003 to 015 are pre-configured for voice monitoring.

```
Select Number
NUMBER  001
NUMBER  002
NUMBER  003
```

5. Choose **Number** then press (OK)

```
NUMBER  003
Number
Description
Type
```
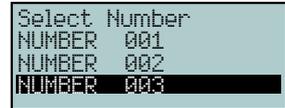
6. Enter the phone number to be called then press (OK)

```
NUMBER  003
0398756400
```

7. Choose **Type** then press (OK)

```
NUMBER  003
Number
Description
Type
```
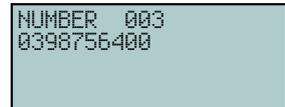
8. Choose **Voice call** then press (OK)

'Voice call' should already be selected.

```
NUMBER  003
None
Voice call
Ademco 10bps
```
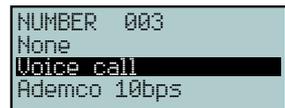
Wireless

Enrolling a wireless PIR

FACTORY DEFAULTS

No wireless devices enabled.

NOTES

• SmartLiving 505 panel supports up to 5 wireless PIRs, reed switches or smoke detectors and up to 50 wireless keyfobs.

• SmartLiving 515 panel supports up to 15 wireless PIRs, reed switches or smoke detectors and up to 50 wireless keyfobs.

• Operation of the keypad numeric keys when programming Terminals.

[1] sets the terminal as an INPUT (I)

[2] sets the terminal as an OUTPUT (0)

[3] sets the terminal as a TWO WAY SUPERVISED OUTPUT (T)

[4] sets the terminal as a DOUBLE ZONE (0)

[5] sets the terminal as UNUSED (–)

[6] sets the terminal as WIRELESS

Use [scroll] keys to scroll up and down.

Use [cursor] keys to move the cursor.

1. Set the bus address on your transceiver to address 2 (Switch 8 on).
It will be seen by the system as Expander 2.
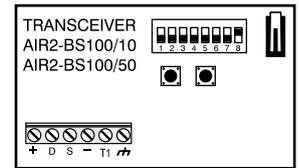
Set the panel's maintenance link in SERV position to auto-enrol the transceiver.
SERV

```
TRANSCEIVER
AIR2-BS100/10
AIR2-BS100/50
      1 2 3 4 5 6 7 8
  + D S – T1
```

2. In Installation program mode, scroll to Terminals then press (OK)

```
PROGRAMMING
Panel options
Terminals
Zones
```
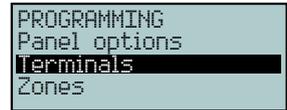
3. Scroll to Expander 2 then press [6] to toggle the expander's terminals to Wireless.

All the terminals on this expander are now reserved for wireless.

```
Terminals  12345
ESPAN. 002 IIIII
Expans.  02 T01
Wireless
```
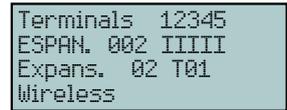
THIS STEP IS REQUIRED FOR 505 PANELS ONLY

4. For 505 panels only.[2] Firstly disable a terminal on the main board to free up a terminal on the expander (transceiver).
Scroll to 'Panel' then scroll across to terminal 5 and press [5] to disable the terminal.

```
Terminals  12345
Panel 1-5  IIII-
```
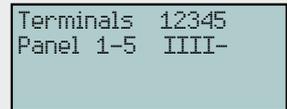
5. Enrolling the radio PIR.
Go to **Programming > Zones** then press (OK)

```
PROGRAMMING
Terminals
Zones
Outputs
```
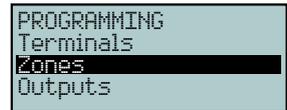
Scroll down to Expander 02 Terminal 01 then press (OK)

```
Zones
Expans.   02 T01
Expans.   02 T02
Expans.   02 T03
```
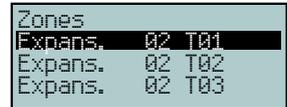
Choose **Wireless** then press (OK)

```
Expans.   02 T01
Type
Options
Wireless
```
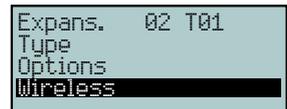
Choose **Enroll Sensor** then press (OK)

```
Wireless
Delete sensor
Enroll sensor
```

Choose **Infrared Sensor** then press (OK)

```
Enroll sensor
Infrared sensor
Magnetic contact
Terminal T1 M.C.
```

Press the Enroll button inside the PIR

```
Programming
```

The keypad will beep once to indicate successful enrolment.

```
Wireless
Delete sensor
Infrared sensor
```