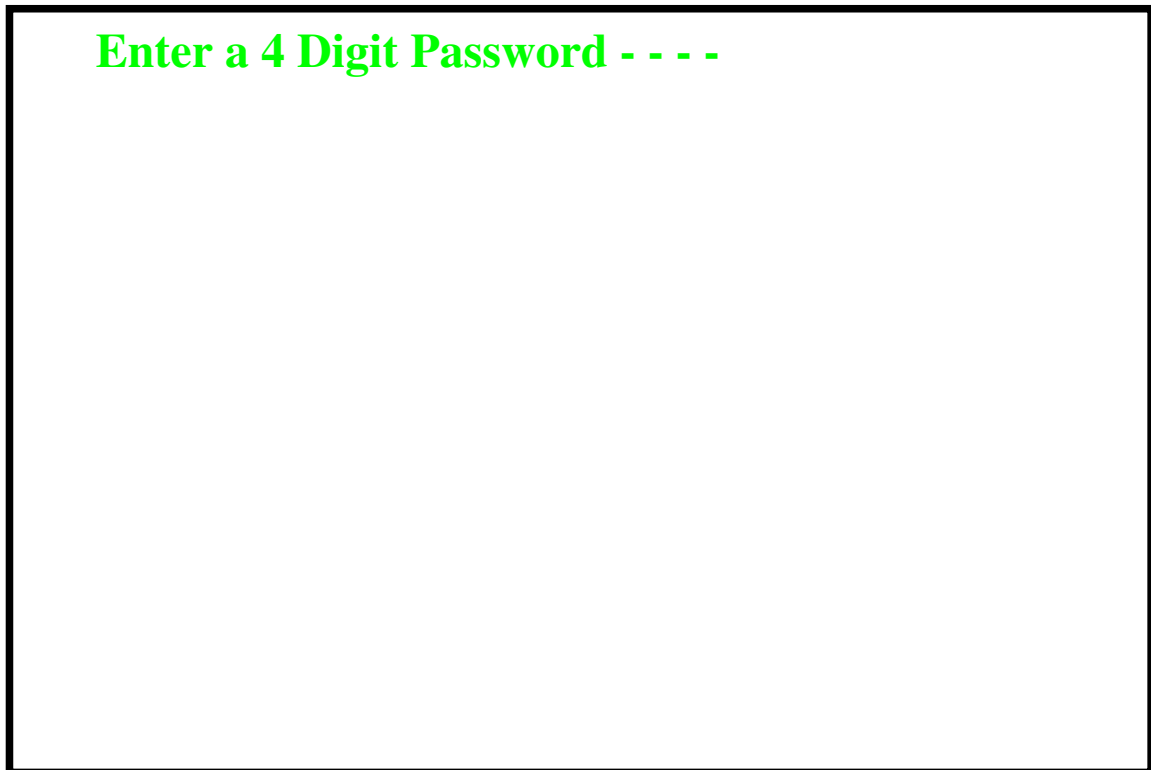


NHS 2100 Wireless Nursecall System Engineers Guide

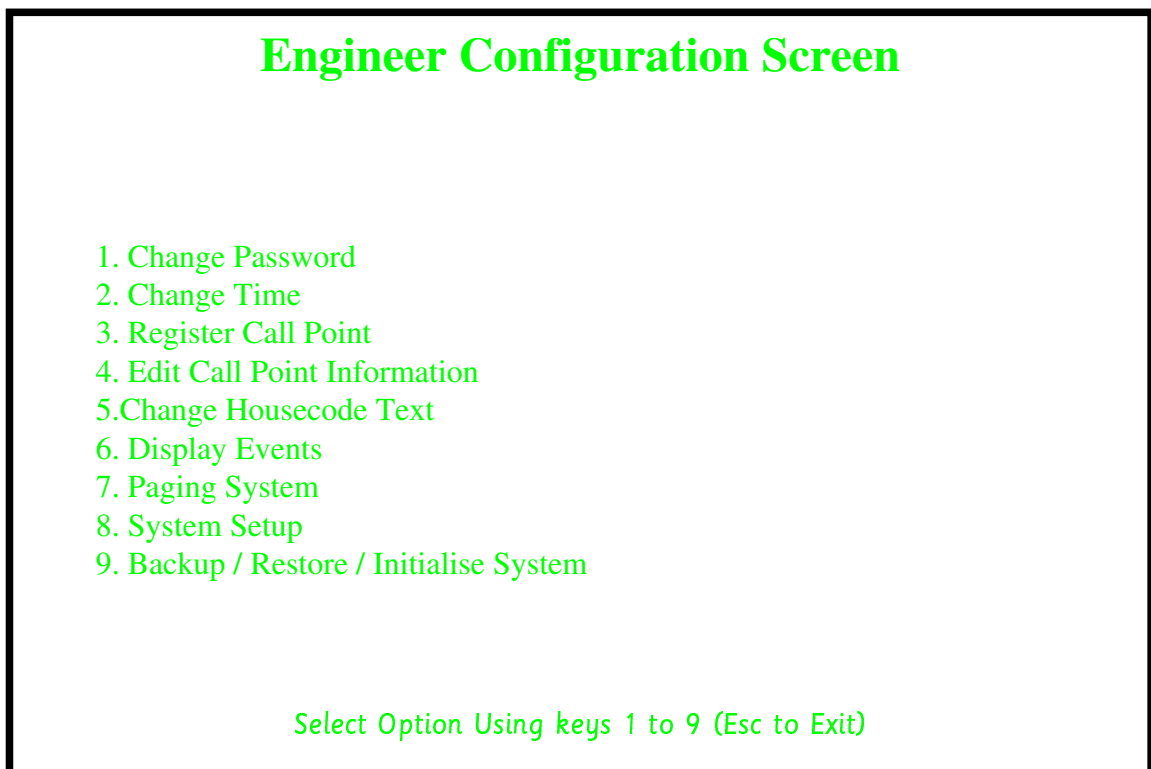
To enter the Engineering Configuration Screen, connect a USB keyboard to one of the USB connectors on the left hand side of the unit and hold the **Left Hand Alt** key and press the **Enter** key.

You will then see a screen similar to below.



Press keys **1,2,3,4** in sequence (default password)

You will now be presented with a screen similar to below



After Selecting Option 1 (**change password**)
You will now be presented with a screen similar to below

Enter New 4 Digit Password
- - - -

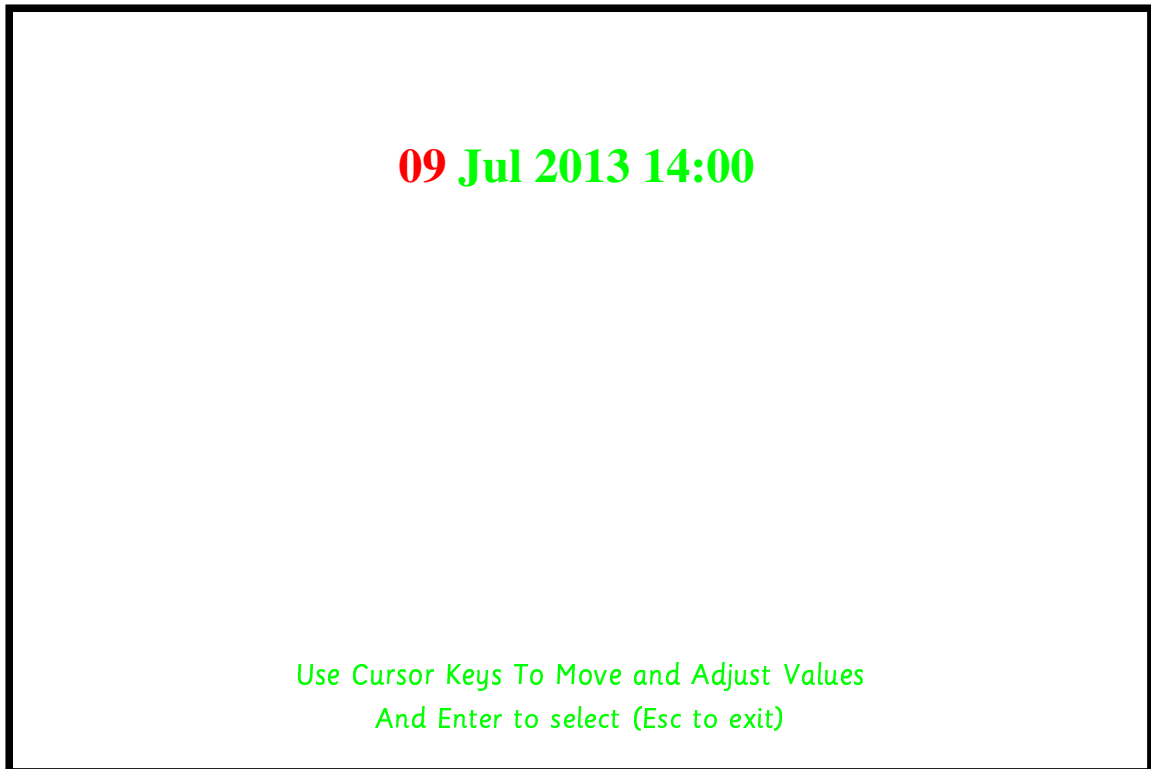
Re-enter New 4 Digit Password
- - - -

(Esc to exit)

After you have entered your new password you will be asked to re-enter it.
If both numbers match the password will be updated.
Pressing the Esc key will exit password update

After Selecting Option 2 (**Change Time**)

You will now be presented with a screen similar to below



Use the Left / Right cursor keys to select which item to change (in red)

Use the Up / Down cursor keys to change values

When finished press Enter to save changes or Esc to exit

After Selecting Option 3 (**Register Call Point**)

You will now be presented with a screen similar to below

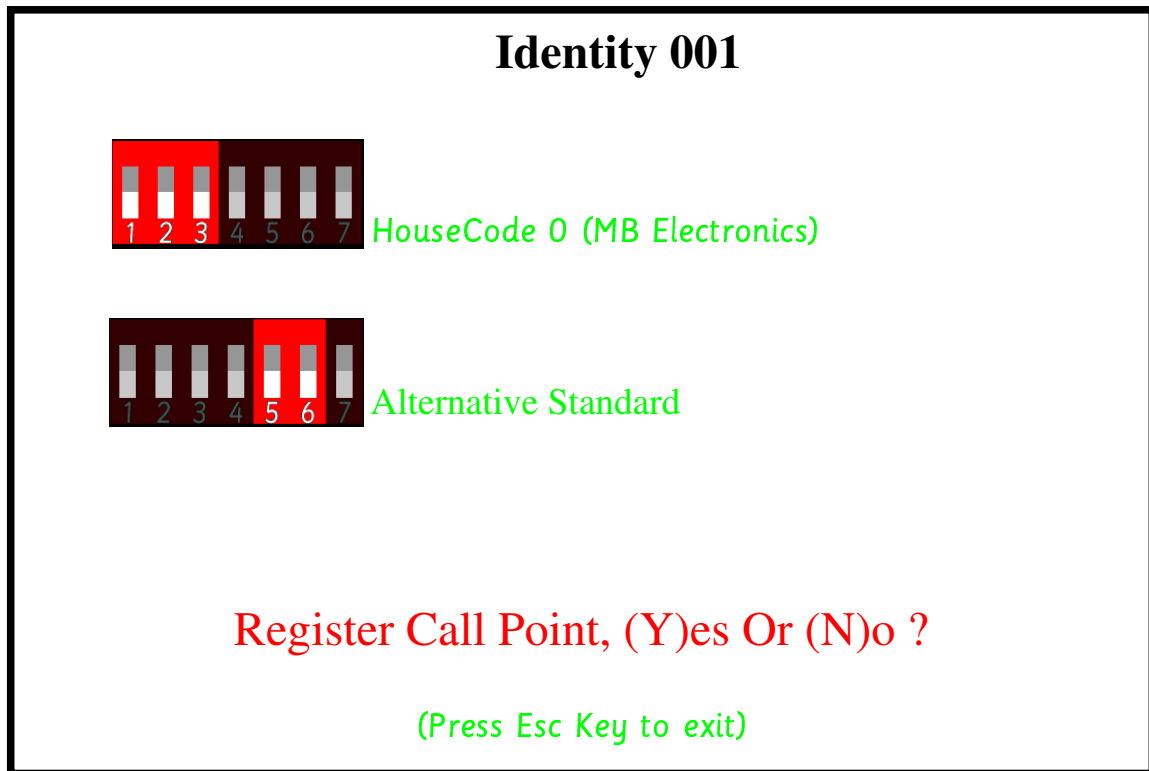


Registration

All call points have to be registered before the system will respond to them. see page 19 of this manual for the transmitter coding technique.

The system will now wait for a registration transmission, press the Black cancel button on a 3002 transmitter to continue. To exit without registering press the ESC key.

Once a transmission has been received You will now be presented with a screen similar to below



HouseCode

As can be seen above switches 1,2,3 on the call point select which HouseCode to use, normally all call points within the same building will be on the same HouseCode, 8 possible HouseCodes can be used and the text can be changed for each HouseCode and is shown in brackets.

Alternatives

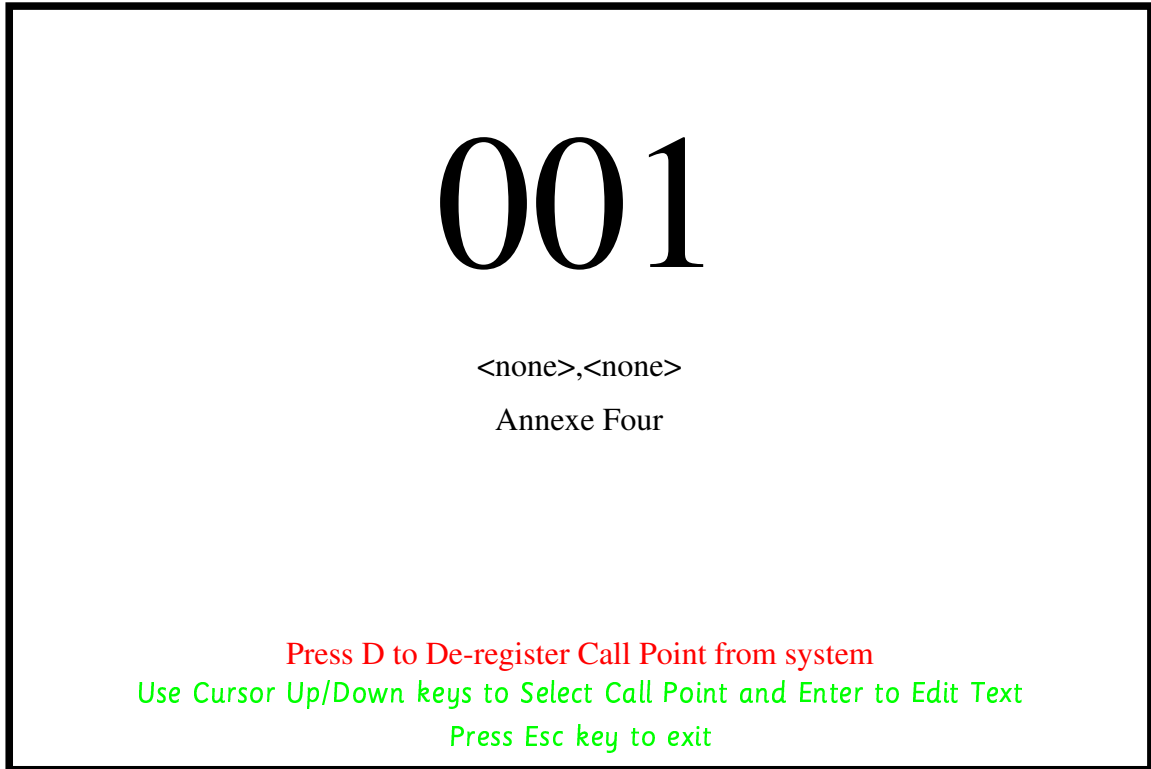
These are normally used when more than one transmitter is used within the same room the transmitter has the same number but can have a different location and description text, normally used when a room contains a bathroom alternative standard would be used for the main room and alternative 1 would be used for the bathroom.

If any of the details are incorrect HouseCode, Alternative, Identity re-code the 3002 transmitter and press the ESC key and re-register.

Pressing N on the keyboard will not register the unit and will exit to the registration transmission screen.

Pressing Y will register the call point and will enter the edit call point screen.

Once a call point has been registered Or selecting option 4 (**Edit Call Point**) from the main menu
The following edit call point screen will be shown as below



The screen shows the call point identity as a large 3 digit number and any description or location text associated with the call point and the HouseCode the call point is using.

Pressing **D** will de-register the unit and will move onto the next registered call point in the system.

Pressing **Esc** will exit the edit call point screen.

Using the **cursor keys** you can move through all the registered units in the system.

Pressing **Enter** will allow you to enter a description text associated with this call point, use the **delete** or **back space** keys to remove any characters not needed and then enter a description text with up to 20 characters, press the **Enter key** when finished. You will now be asked to enter a location text, enter the text as you did for the description, When finished press the **Enter** key.

Once you have entered a new description and new location text the screen will show you the changes and you will be asked to update the call point with the changes press **Y** for yes or **N** for no.

After Selecting Option 5 (**Change HouseCode Text**)
You will now be presented with a screen similar to below

Use Cursor keys to Move BLUE edit box
Enter HouseCode Text using keyboard

MB Electronics

Thrust Technology

Annexe Two

Annexe Three

Annexe Four

Annexe Five

Annexe Six

Annexe Seven

Annexe Eight

Press Enter to save (Esc to Exit)

Use the cursor keys to move the blue edit box and use the keyboard to enter the text for each housecode
Once finished press the Enter key to save or the Esc key to exit.

After Selecting Option 6 (**Display Events**)
You will now be presented with a screen similar to below

Select Option Below
Using Keys 1 to 3

- 1. Display All Events**
- 2. Display By Date**
- 3. Display By Number**

After Selecting Option 1 (**Display All Events**)
You will now be presented with a screen similar to below

Display All Events

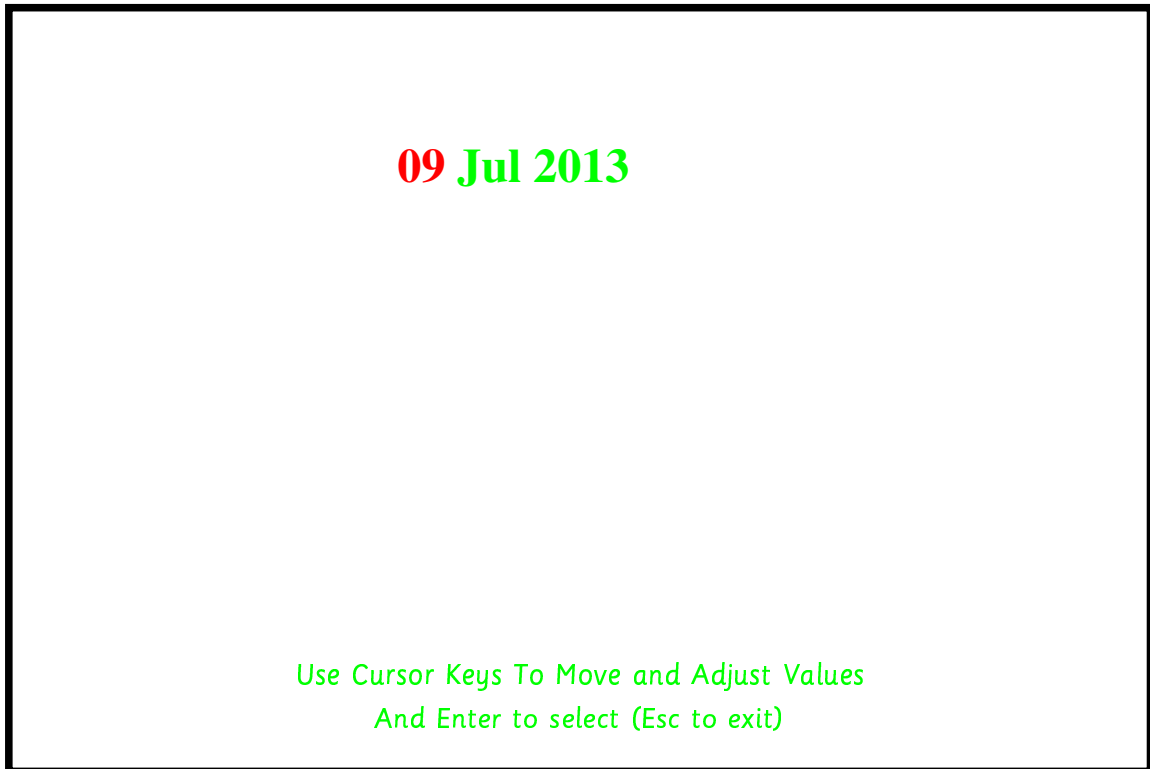
Tue,09 Jul 2013.11.09:03
Assistance 999

Description
Location
Housecode

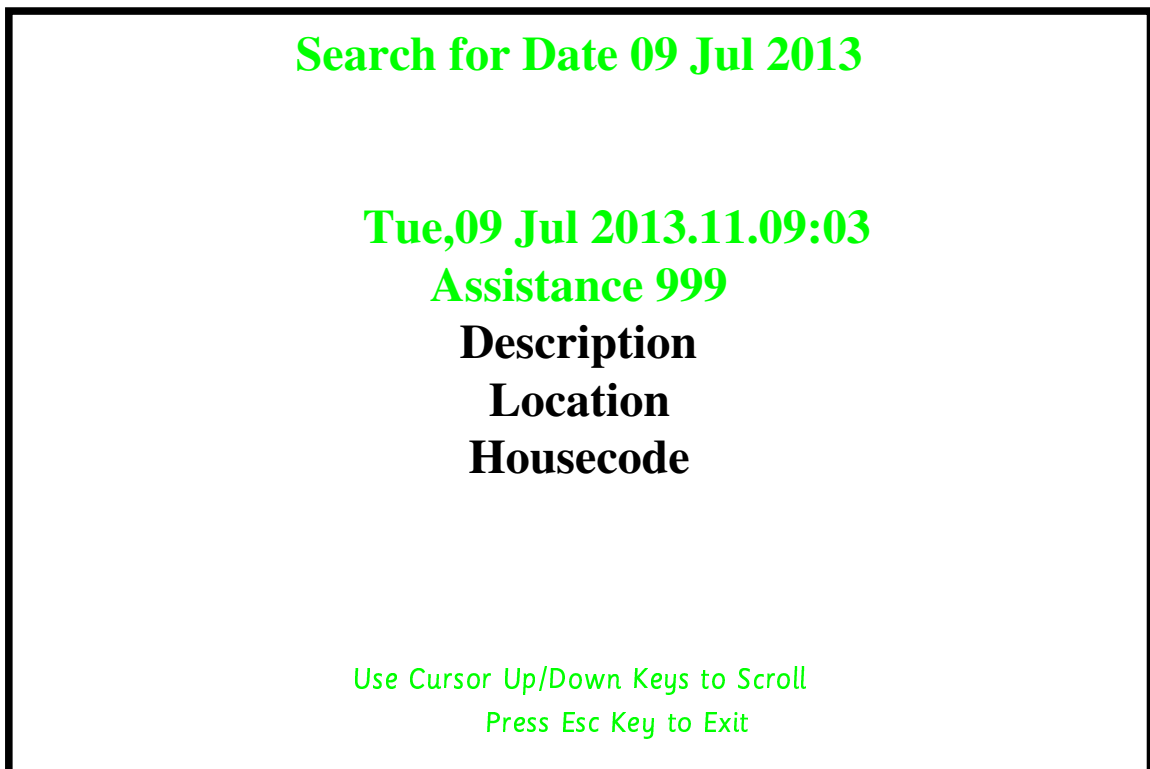
Use Cursor Up/Down Keys to Scroll
Press Esc Key to Exit

Each Press of the Up/Down keys will scroll through all events in memory in sequence.

After Selecting Option 2 (**Display by Date**)
You will now be presented with a screen similar to below



Use Cursor keys to select date and the press enter to continue
you will the see a screen similar to below



Each Press of the Up/Down arrows will scroll through all call on the specified date.

After Selecting Option 3 (**Display by Number**)
You will now be presented with a screen similar to below

Enter number to Search for ?

Use Keys 0-9 and Press Enter (Esc to exit)

Enter your call point number to search for and then press Enter
You will now be presented with a screen similar to below

Search for Number 001

Tue,09 Jul 2013.11.09:03
Assistance 001

Description
Location
Housecode

Use Cursor Up/Down Keys to Scroll
Press Esc Key to Exit

Each Press of the Up/Down arrows will scroll through all calls with the specified number.

After Selecting Option 7 (**Paging System**)
You will now be presented with a screen similar to below

Use Cursor keys to Move BLUE edit box
Enter Paging Address using keyboard 0-9 (must be 7 digits)

Emergency	<input style="border: 1px solid blue;" type="text" value="0012000"/>
Assistance	0012000
Patient	0012000
Cancel	0012000

Press E to Enable Paging System
Press Enter to save Esc to Exit

Use the **cursor keys** to move the blue edit box and use the **Delete** key to remove any unwanted characters.

Using the keys **0 to 9** enter a new paging number which must be 7 digits and normally divisible by 8
eg. (**0012000 0012008 0012016** etc)

Each priority level can have its own paging address.

Pressing **D** completely disables the paging system

Pressing **E** enables the paging system.

After Selecting Option 8 (**System Setup**)
You will now be presented with a screen similar to below

System Setup

- 1. Volume Control Timer**
- 2. Monitor Control**
- 3. Call Priority Sound Control**
- 4. Call Priority Inhibit Control**

After Selecting Option 1 (**Volume control Timer**)
You will now be presented with a screen similar to below

Sound Level Timetable

Blocks 00-23 Represents a 24 Hour clock in hour segments
The blocks colour can be changed between Red(full) or Grey(Low) Volume
Changing the blocks colour, will adjust the volume throughout the day

Hours	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
-------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Low Volume Sound Level = 020
High Volume Sound Level = 080


Use Cursor keys to Move white edit box
Press Space to toggle between Red(Full) Grey(Low) volume setting
Press Enter to Save (Esc o Exit)

The cursor key can be used to move the white edit box on to any of the 24 hour segments, each segment can then be toggled High/Low by using the space bar. The white edit box can also be moved onto the low volume setting or high volume setting, the volume setting can then be changed by using the Left/Right cursor keys.

After Selecting Option 2 (**Monitor Control**)
You will now be presented with a screen similar to below

Monitor Control Timetable
Blocks 00-23 Represents a 24 Hour clock in hour segments
The blocks colour can be changed between Red(On) or Grey(Off)
Changing the blocks colour, will turn On/Off the monitor throughout the day.

Hours	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
-------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

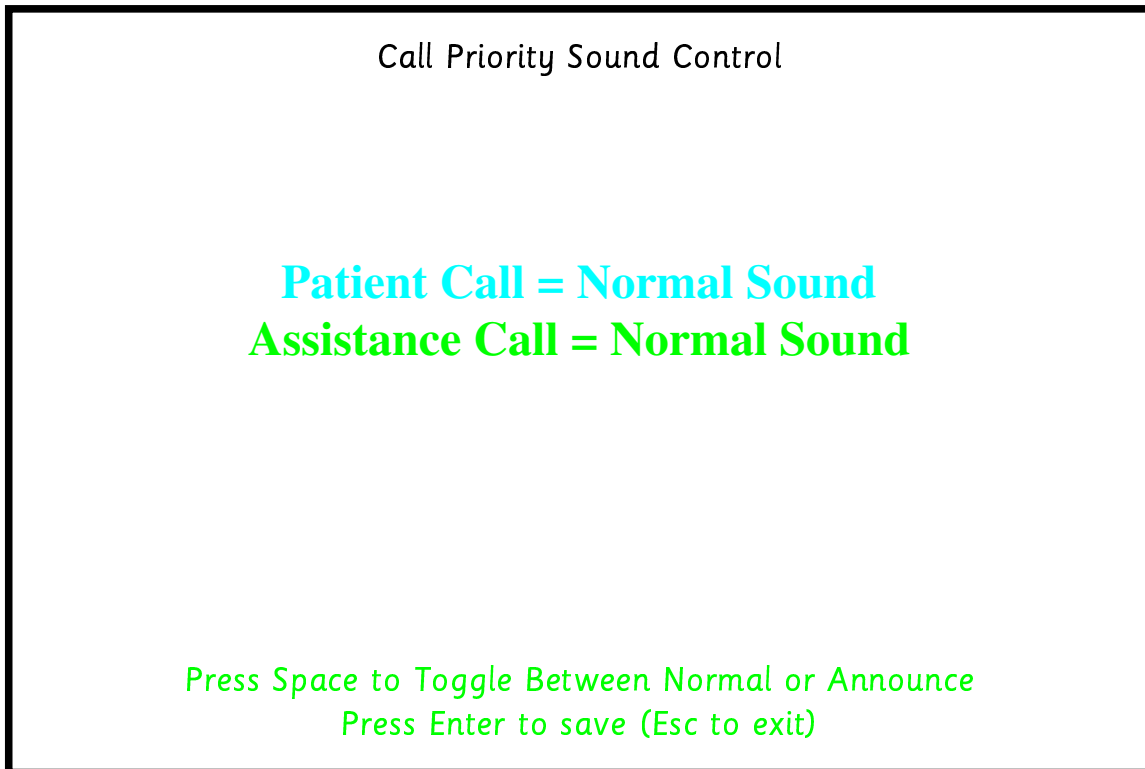
 Monitor OFF during mains failure

Press E to Enable or D to Disable Mains Failure
Use Cursor keys to Move white edit box
Press Space to toggle between Red(Full) Grey(Low) volume setting
Press Enter to Save (Esc o Exit)

The monitor will be switched back on when any alarm call enters the system
After all calls are cancelled the monitor will return to its off state.

The monitor can be set to switch off during a mains failure to reduce power consumption.

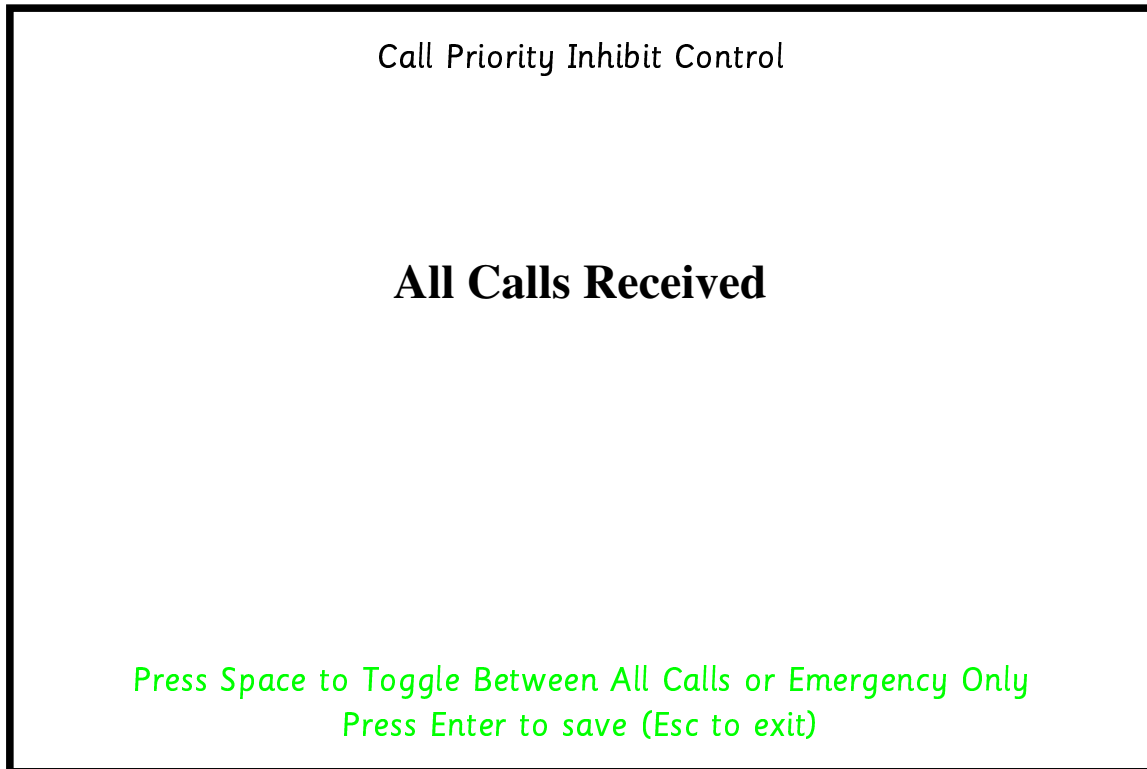
After Selecting Option 3 (**Call Priority Sound Control**)
You will now be presented with a screen similar to below



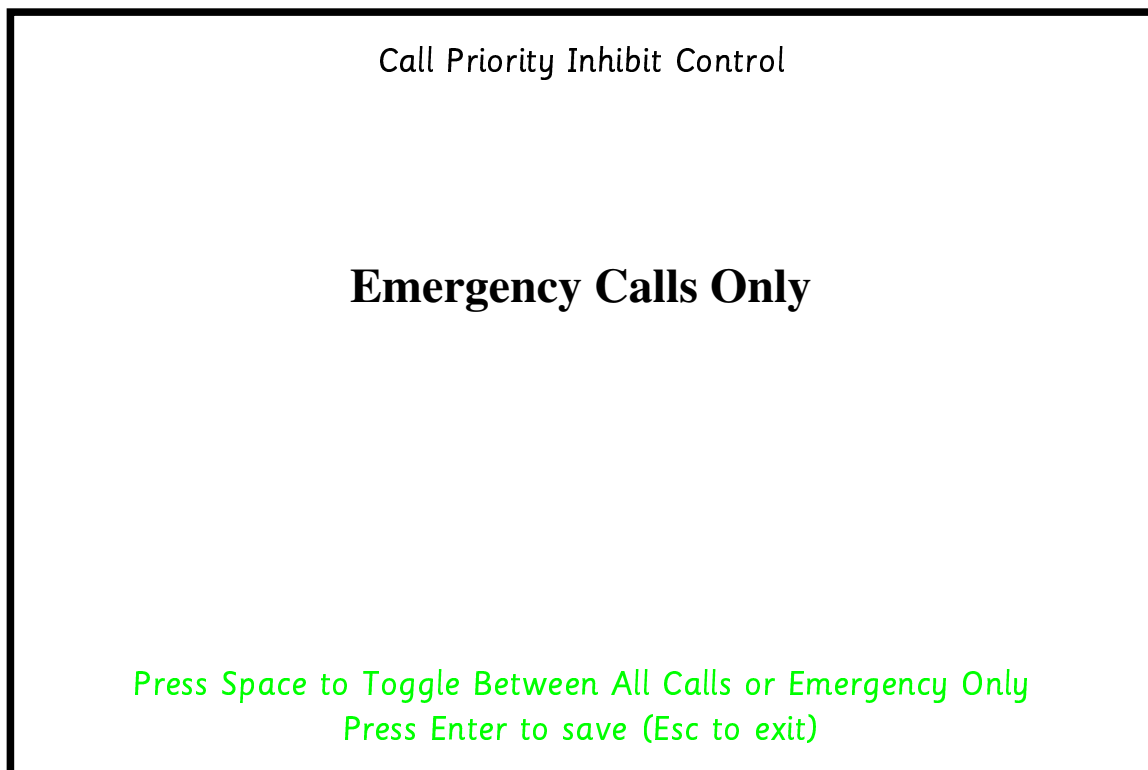
Each press of the space bar will toggle between these two screens
Announce only will play a short sound each time a Patient or Assistance call is received
if normal sound is selected a alarm will sound while the call is in the system.



After Selecting Option 4 (**Call Priority Inhibit Control**)
You will now be presented with a screen similar to below



Each press of the space bar will toggle between these two screens
The two options are All Calls or Emergency only.



After Selecting Option 9 (**Backup / Restore / Initialise System**)

You will now be presented with a screen similar to below

System Setup

- 1. Initialise System**
- 2. Backup System Files to External USB Drive**
- 3. Restore System Files from External USB Drive**

After Selecting option 1 (Initialise System)

You will be presented with a screen similar to below

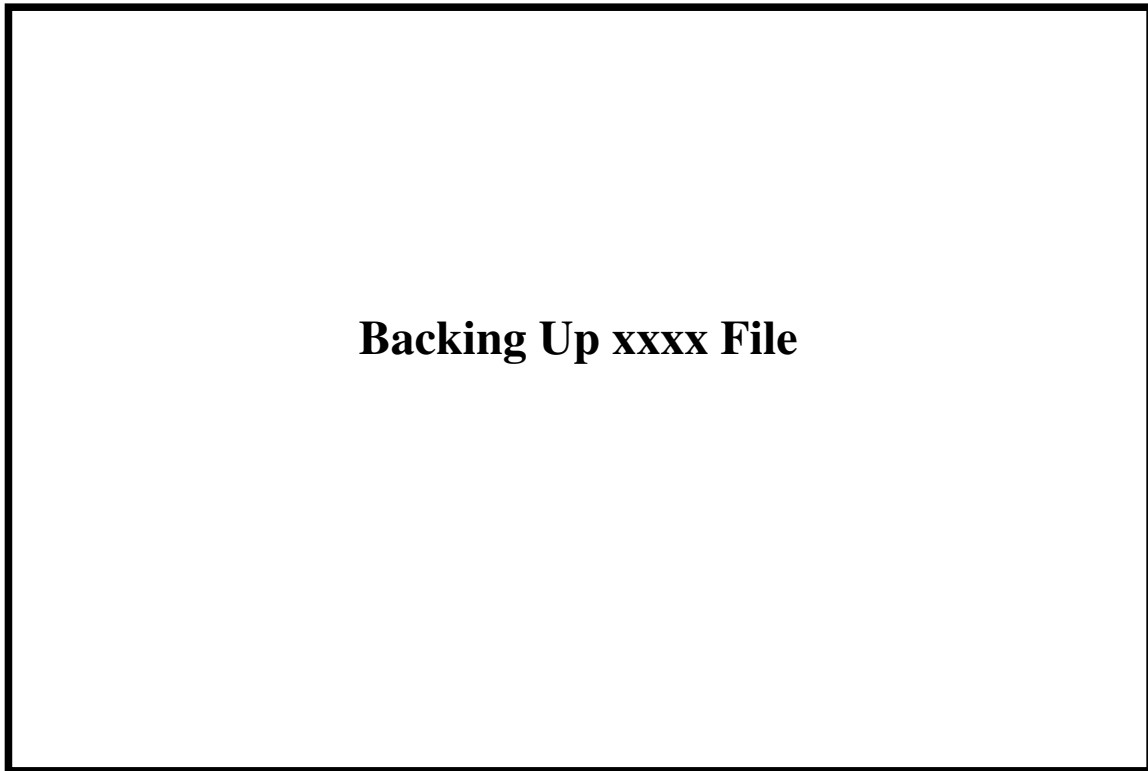
Warning All System Files Will Be Overwritten!
Press Y to Continue

Pressing **Y** will reset the system back to factory settings

All Call Points will be unregistered

After Selecting option 2 (**Backup System Files to External USB Drive**)

You will be presented with a screen similar to below

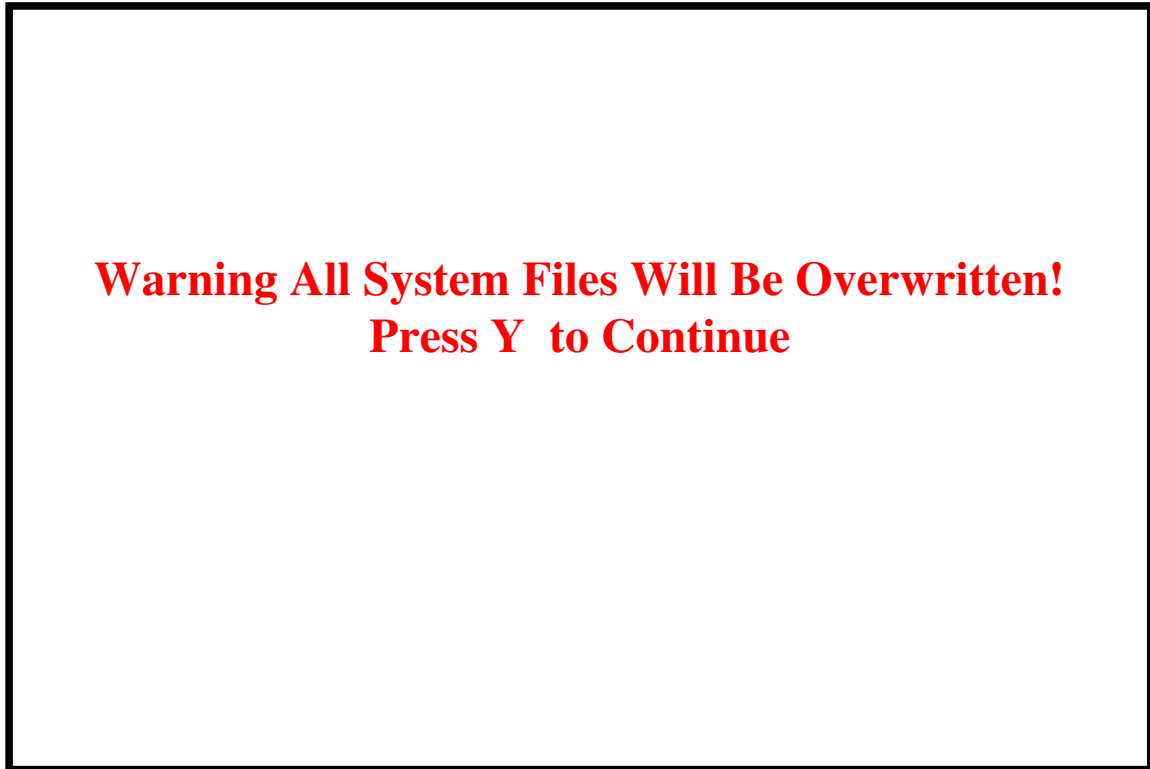


Backing Up xxxx File

Before selecting this option a USB flash drive should be plugged into the USB socket on the left hand side of the unit. Each file in turn will be backed up to the external USB drive, this option should be selected once the system has been installed and commissioned. this drive should then be safely stored for later use.

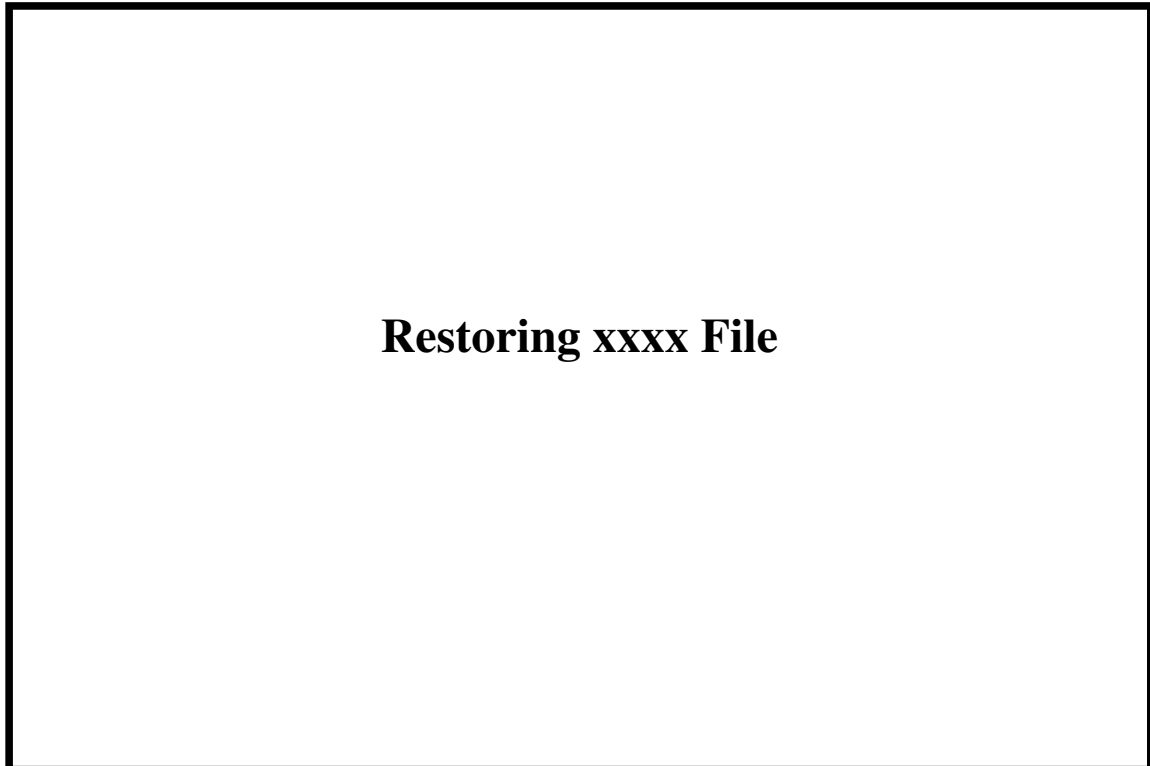
After Selecting option 2 (**Restore System Files from External USB Drive**)

You will be presented with a screen similar to below



After Pressing **Y**

You will be presented with a screen similar to below



Before selecting this option a USB flash drive should be plugged into the USB socket on the left hand side of the unit. Each file in turn will be restored from the external USB drive, this option should be selected to restore a system or if a new system is being installed in an existing installation.

3002 Nurse Call Transmitter Identity Coding

This instruction sheet contains a detailed description of the encoding technique required to assign each transmitter a unique identity number. Once this number has been assigned each transmitter has to be registered with the NHS 2100.

Up to 999 transmitters may be used on the system and each one can be coded with its own identity number

Each button on the unit is used to assign a number to the unit.

The RED EMERGENCY button will assign hundreds each time it is pressed.

The GREEN ASSISTANCE button will assign tens each time it is pressed.

The BLACK CANCEL button will assign units each time it is pressed.

- 1) First fit the battery (fit the pear push lead if the unit is not a pull cord type)
- 2) Press and hold the cancel button, whilst the green LED is illuminated press and hold the emergency button and the cancel button until the red LED flashes twice & then both LEDs will remain illuminated.
- 3) Each press of a button will make the RED led flash, this to help you when coding.
- 4) After coding, Exit the coding routine by pressing the pear push lead or pulling on the pull cord.

Identity Coding Example

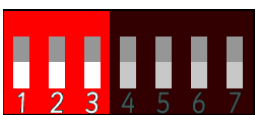
To give the unit the identity number **865**, proceed through steps 1 to 3

Press the RED button 8 times (the red led will flash 8 times). = **800**

Press the GREEN button 6 times (the red led will flash 6 times). = **60**

Press the BLACK BUTTON 5 times (the red led will flash 5 times). = **5**

Press activate pear push lead or pull cord to exit coding routine.



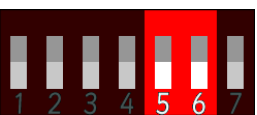
HouseCode

Each Transmitter can operate on one of 8 possible HouseCodes transmitters that are in the same area or building would normally use the same housecode, switches 1,2,3 select which housecode to use.

The 8 possible HouseCode switch settings are:-

(1off 2off 3off = HC0) , (1on 2off 3off=HC1) , (1off 2on 3off =HC2) , (1on 2on 3off = HC3)

(1off 2off 3on = HC4) , (1on 2off 3on =HC5) , (1off 2on 3on =HC6) , (1on 2on 3on = HC7)



Alternatives

Each Transmitter can have 4 possible alternatives, these alternatives have the same identity number and housecode but can have different location and description text assigned to them

The 4 possible Alternatives switch settings are:-

(1off 2off 3off = standard unit) , (1on 2off 3off = Alt 1) , (1off 2on 3off = Alt2) , (1on 2on 3off = Alt3)

Ensure that the NHS 2100 is in registration mode then press the cancel button on the transmitter, see NHS 2100 for transmitter details if any are incorrect re-code and try again.