

EkoTek Pager User Guide



USER GUIDE

for

EkoTek Pager

9261-8275 Issue 5

EkoTek Pager User Guide

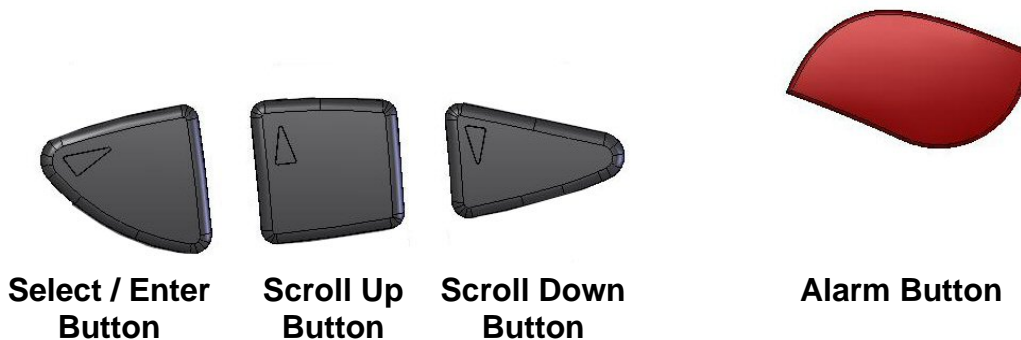
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Introduction

Your EkoTek pager is an alphanumeric two-way messaging device, incorporating an emergency calling facility. The pager is able to receive text messages, send basic responses and provides the ability to store messages for later viewing. The high contrast screen is capable of displaying up to 150 characters and all menus are displayed in plain language text. Operation of all functions is performed via intuitive menus using three tactile buttons and the red button is used to raise an alarm. To gain full benefit from this product please read this guide carefully.

Function and control buttons



Select and enter button

Denoted by the ► symbol, this button is used to confirm selected options within the menu screens and to return to the standby screen when pressed for more than 1 second.

Scroll up/down buttons

Denoted by the ▲ (up) and ▼ (down) symbols. These buttons are used to scroll up and down the menus.

Alarm button

Denoted by the red button, this can be either single or double press. Operation depends on the system configuration.

Snatch cord (later models only)



Later models also have a snatch cord inserted in a socket on the body of the pager. If the pager is snatched the cord disengages from the body of the pager and an alarm is sent. Re-inserting the snatch cord cancels the alarm.

The pager is also supplied with a small blanking plug. If the snatch cord is not required the blanking plug can be installed in the snatch cord socket and the snatch cord feature is then disabled.

IMPORTANT NOTE: The blanking plug is not removable by the user. Do not install the blanking plug unless you never intend to use the snatch cord.

Compliance

This product complies with the requirements of the EU Radio and Telecommunications Terminal Equipment Directive 99/5/EC.

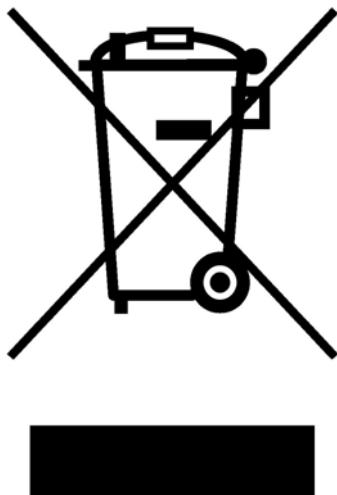
FCC and Industry Canada statement of compliance

This device complies with Part 15 of the FCC Rules and Industry Canada Standard RSS 210.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference that may cause undesired operation.

Unauthorised modification to this equipment will void the user's authority to continue to operate the device within the scope of the Industry Canada and FCC Part 15 Rules.

A full technical specification for this product may be obtained from your Multitone representative.



WEEE Directive and product disposal

At the end of its serviceable life, this product should not be treated as household, or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

General user information

Radio reception

The pager has been designed to give optimum performance within the coverage area of the transmitting system. As with any radio system there may be areas of poor coverage, where reception may be sporadic, or non-existent. If necessary, consult the EkoTek system supervisor in order to familiarise yourself with these areas.

Hazardous areas

The pager should not be taken into areas where explosive gas, or dust products, may be present.

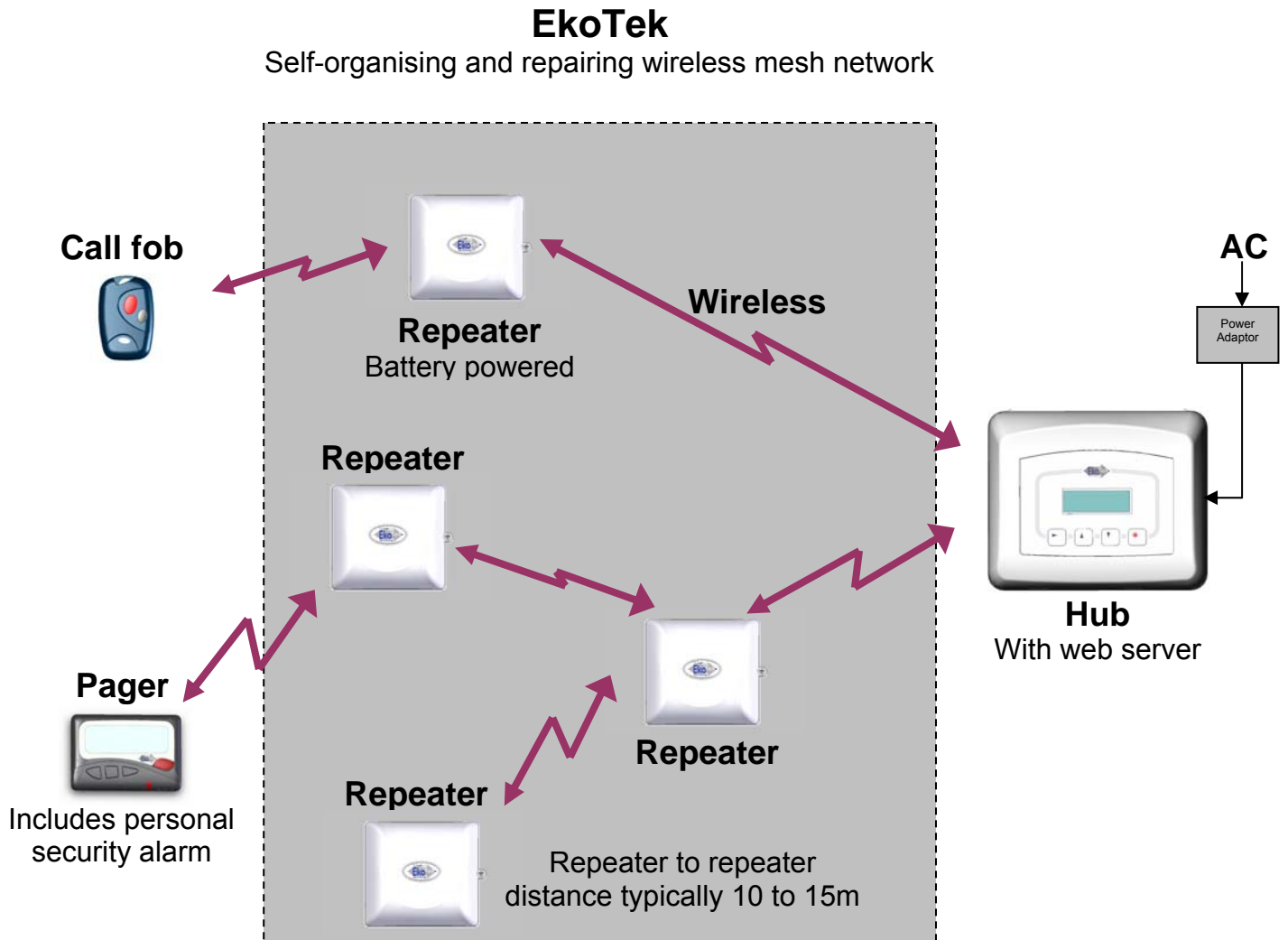
Pager care

Protect the pager from liquids, extreme temperatures and strong magnetic fields. Do not leave the pager exposed to strong sunlight.

Servicing

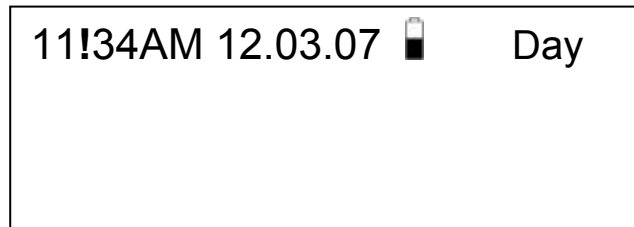
Should the pager need repair, return it to the designated service agent. Do not attempt to open or repair the product, as it contains delicate components and requires specialised test equipment.

EkoTek system schematic



Switching on the pager

To switch on, press and hold the ► button for more than half a second. A message will then be displayed for three seconds, whilst self-checks are being performed. Finally, the standby screen will be displayed:

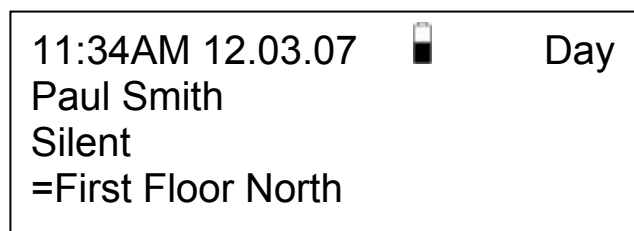


An exclamation mark (!) will flash between the Hours and the Minutes (11!34AM). This indicates that the pager is in the process of detecting the EkoTek wireless network. Once the network is detected this will change to a flashing 'colon' or 'period' symbol.

If the pager does not switch on, check that a fresh battery is correctly installed; see 'Changing the battery'.

Status and warning messages

When the pager is switched on the standby screen is displayed. This consists of the time and date, battery charge plus additional status and warning messages. A typical screen is shown below:



The first line is the clock displaying the current time and date: the time may be in either a 12 or 24-hour format. The battery icon shows the battery charge. In the top right hand corner the pager will display **Day** or **Night**: this is used to indicate the shift mode.

The second line displays the **pager name** or '**n**' **unread messages**, showing how many messages have been received but not viewed.

The third line shows the status of the alert, **Silent** to warn that the audible alert has been turned off, or **No Vibrate** to show that the vibrate alert has been turned off. When both audible and vibrate alerts are turned off, **Silent** is displayed. If nothing is displayed, then both audible and vibrate alert are turned on.

The fourth line of the screen will display a location name once the pager has received its configuration from the network. This will be **=[location name]** (for example, **=Conference Room 1**) when in the exact location or **-[location name]** to indicate an approximate location.

Once the battery reaches a state where it requires replacement, **Replace Battery** will be displayed. The battery icon will flash when the battery gets to the point where the **Replace Battery** message is displayed in place of the location name.

If the pager is out of range from the wireless network for more than two minutes the **Out of Range** message will be displayed on the fourth line and an alert defined by the mode settings (beep/vibrate) is given. In situations where the battery requires replacement and the pager is out of range only **Replace battery** will be displayed.

Using menus

Use the ▲ or ▼ buttons to move through the menu entries. The ► button is used to select an option shown by the **> <** pointers. If the pointers change to ??> <??, confirmation is required using another ► button press.

Switching off the pager

From the standby screen press and release the ► button. The settings screen will now be displayed:

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```
**> Options                <**  
  Set 12 Hour Mode  
  Enable Powersave  
  Power Off
```

The two pointers show the item that will be selected if the ► button is pressed. Use the ▲ or ▼ buttons to move the pointers to **Power Off** and select this item by pressing the ► button. The pointers will change to question marks showing that confirmation is required to switch the unit off:

```
Options  
  Set 12 Hour Mode  
  Enable Powersave  
??> Power Off                <??
```


Press the ► button again and the pager will switch off.

Raising an alarm using the red button


Note: This feature must be enabled by the EkoTek system supervisor.

To raise an alarm press the red button. Depending on how the EkoTek system is configured this may require a single or a double press. Please confirm this with the EkoTek system supervisor.

On pressing the red button the pager will either beep and/or vibrate in sequence with a flashing alert lamp. Please note that the precise nature of this acknowledgement depends on the system configuration. When the alarm is raised the screen will display the following information:

11:34AM 12.03.07		Day
Paul Smith		
Raising Alarm		

When the alarm has been received by the EkoTek hub the display will change as follows:

11:34AM 12.03.07		Day
Paul Smith		
Alarm Delivered		

Raising an alarm using the snatch cord (later models only)


Note: This feature must be enabled by the EkoTek system supervisor.

Later models also have a snatch cord inserted in a socket on the body of the pager. If the pager is snatched the cord disengages from the body of the pager and an alarm is sent. The pager

behaves in a similar fashion to when an alarm is raised using the red button.

Canceling an alarm

At any stage following the initiation of an alarm it can be cancelled. To cancel an alarm raised using the red button press and hold the ► button. To cancel an alarm raised using the snatch cord (where fitted) re-insert the snatch cord into the socket on the top side of the pager. The display will confirm this action with the following message:


11:34AM 12.03.07		Day
Paul Smith		
Clearing Alarm		

When the alarm has cleared on the system, the fourth line of the display will return to displaying the pager location.

Dead man alert

Note: This feature must be enabled by the EkoTek system supervisor.

The 'dead man' alert operates by initiating an alert to the pager at pre-set time intervals. This alert must be acknowledged by a single press on any of the pager buttons (other than the red alert button) within a pre-set time period. Please note that the system supervisor configures both the frequency of the 'dead man' alert and the required response time.

11:34AM 12.03.07		Day
Paul Smith		
Press any key to cancel		

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If the alert is not acknowledged within the pre-set time period the pager will automatically raise an alarm.

Note: at any stage during the 'Dead Man' alert process it is possible to cancel the alarm by pressing and holding the ► button.


Man down alert

Note: This feature must be enabled by the EkoTek system supervisor.


The 'Man Down' alert operates by automatically initiating an alert sequence if the pager is tipped over (e.g. if the user should fall):

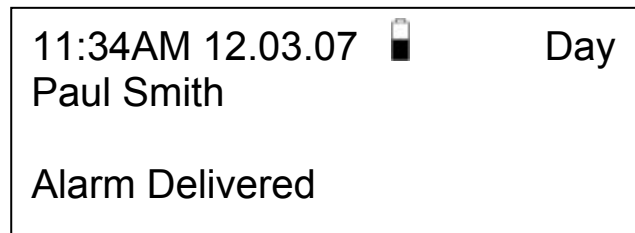


If the pager is not returned to an upright position after a preset time interval the pager will beep and display the following warning:

11:34AM 12.03.07		Day
Paul Smith		
Return unit to upright		

This allows the unit to be returned to an upright position, terminating the alarm sequence. If the pager is not righted it will raise an alarm as follows:

11:34AM 12.03.07		Day
Paul Smith		
Raising Alarm		

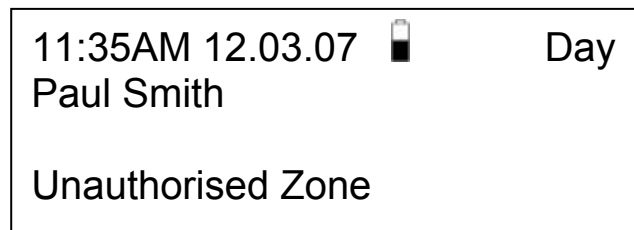


Please note that at any stage during the 'Man Down' alert process it is possible to cancel the alarm by returning the pager to an upright position and by pressing and holding the ► button.

Location alarm

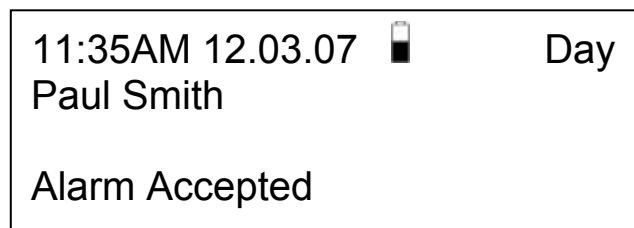
The pager is equipped with a location alarm feature. This facility must be enabled by the EkoTek system supervisor.

If the location alarm feature is set an alert is raised when the pager enters an unauthorised zone. Depending on how the EkoTek system has been configured, the pager may beep and vibrate as well. If the pager is returned to an authorised area the location alarm will automatically be cleared. When a location alarm is raised the following is displayed:



Alarm acceptance

When an alarm has been accepted the pager will display 'Alarm Accepted'. It will also emit two LED flashes and might also beep twice and/or vibrate twice, depending on the system configuration.



Alarm escalation

If a raised alarm is not cleared within a period of time defined by the hub device mode then the alarm is raised again. If an alarm is cleared by the initiating pager the escalation is stopped. When assistance has been received and is no longer required the call must be cancelled.

Receiving a message

When the pager receives a message the audible alert will be activated, unless silent mode has been selected via the front panel options.

Reading a message

The message will be displayed in a preview mode:

Your car will be ready for
collection next Monday
afternoon■

The end of the message is always shown by the character ■. If the message is very long and cannot be fully displayed the last character will be designated using the following symbol ▶. This indicates that the message continues onto the next screen:

Contact Mr Moore of ABC
Electronics Tel: 01763-246391.
The new contract is ready for
signature can you sign this▶

To see the rest of the message, simply press the ▶ button:

before Wednesday. JILL■

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If the message is not acknowledged the pager will return to the standby screen indicating that a message has been received:

3:54PM 12.03.07
1 Unread Message
=First Floor North

As each new message is received it is stored. The maximum number of messages that can be stored is 6. To make room for new messages the pager will start to delete the oldest read messages. If there are no read messages it will delete the oldest unread message.

To read a message, press the ▼ button whilst the pager is in the standby screen. The first message will be displayed:

4:38 PM 12.09.06 Unread
Your car will be ready for
collection next Monday
afternoon■

The top line shows the time and the date the message was received and to the right the message status will be displayed: this will be either **Unread** or **Read**.

Press the ▼ button to display the next message, or select the ▲ button to display the previously viewed message.

9:05AM 12.09.06 Unread
Contact Mr Moore of ABC
Electronics Tel: 01763 - 246391.
The new contract is ready▶

Using the ▲ and ▼ buttons allows navigation through the stored messages. Unread messages are sorted in time order and are displayed first, followed by the read messages, also in time order.

2:17 PM 12.09.06	Read
You are booked on Flight BA153. Departs at 18:05 ticket confirmed. Helen■	

Viewing a message again

While a message is being displayed, press the ► button and the message option screen will be displayed. The display response will be dependent upon the message type received. If it is a one-way message the following options will be displayed:

For 1-way
messages:

> View Again	<
Delete	
Delete All	
Archive	

If it is a two-way message, the options change to allow initiation of a response (see section on accepting, rejecting and deleting two-way messages):

For 2-way
messages:

View Again	
> Accept	<
Reject	
Delete	

Both options allow you to view the message. Select the **View Again** option (using the ▲ ▼ buttons if necessary) by highlighting **View Again** and pressing the ► button. The pager will return to displaying the last message again, which will then remain in the memory for you to view in future, until deleted.

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9:05AM 12.09.06 Read
Contact Mr Moore of ABC
Electronics Tel: 01763 - 246391.
The new contract is ready▶

If the message is in an unread state when **View Again** is selected, the status will change to **Read**. Should the **View Again** option be used on a message that was only displayed in preview mode it will be displayed in preview mode but the message will be marked with the status set to **Read**.

Accepting, rejecting and deleting two-way messages

On receipt of a message press the ▶ button directly. Or from the standby screen press the ▼ button to read the message then press the ▶ button to acknowledge the message. For two-way messages the following options will be displayed:

View Again
> Accept <
Reject
Delete

Accept by pressing the ▶ button: For other responses to the message press the ▼ button and move the pointers to: **Reject** or **Delete**. Select the option:

View Again
Accept
> Reject <
Delete

If the option chosen is Delete then the pointer will change to question marks requesting confirmation of the action:

View Again
Accept
Reject
??> Delete <??

To confirm the action press the ► button: the pager will briefly display the following depending on the action selected:

- For **Accept** the response is: **Sending Accept Response**
- For **Reject** the response is: **Sending Reject Response**
- For **Delete** the response is: **Deleting**

Deleting a message

To delete a message, press the ► button when the ■ appears at the end of the message. One of the following message option screens will be displayed depending on the message type received:

For 1-way Messages:

> View Again	<
Delete	
Delete All	
Archive	

For 2-way Messages:

View Again	
>Accept	<
Reject	
Delete	

Press the ▼ button to move the pointers to the **Delete** item and select by pressing the ► button:

For 1-way messages:

View Again	
>Delete	<
Delete All	
Archive	

For 2-way messages:

View Again	
Accept	
Reject	
> Delete	<

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The pointers will change to question marks to show that confirmation of the delete action is required. If you do not want to delete, press the ▲ or ▼ buttons. To confirm that you wish to delete the message, press the ► button again and the screen will briefly display *Deleting*.

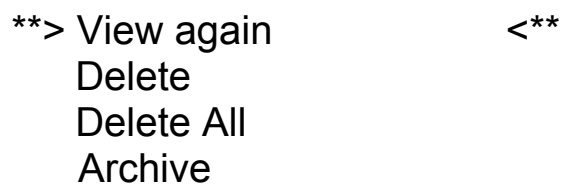
When the current message has been deleted, the previously received message will be displayed. If you wish to delete this message repeat the procedure above. To return to the standby screen press and hold the ► button for one second. If there are no more messages, the following screen will be displayed before returning to the standby screen:



No messages

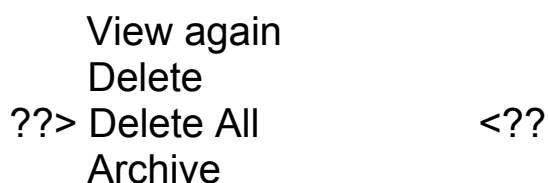
Delete all messages

To delete all the messages, press the ► button when the ■ appears at the end of the message. The message option screen will be displayed:



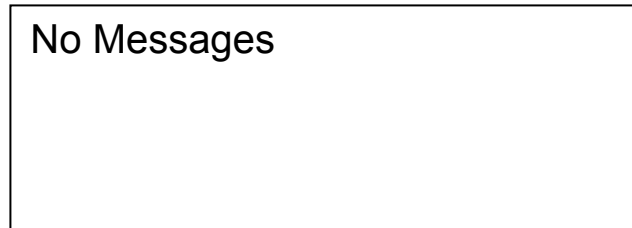
```
**> View again           <**
Delete
Delete All
Archive
```

Press the ▼ button to move the pointers to the *Delete All* item and select by pressing the ► button:



```
View again
Delete
??> Delete All           <??
Archive
```

The pointers will change to question marks, to show that confirmation of the delete action is required. If you do not want to delete, press the ▲ or ▼ buttons. To confirm that you wish to delete the message, press the ► button again and the screen will briefly display **Deleting**. Having deleted all the messages the following screen will be displayed before returning to the standby screen:

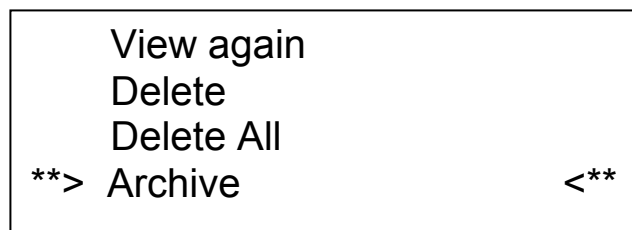


Note: all messages will be deleted, including any unread alarm messages.

Archiving a message


Note: The **Archive** feature is available to all 1-way messages. However, for 2-way messages the **Archive** feature can only be accessed once the message has been viewed and accepted or rejected or if it is a personal alarm it has been accepted or cleared (not necessarily by this pager).

Messages may be stored for reference, by using the Archive facility. The pager cannot automatically delete archived messages when the message memory is full, only the user can delete messages. At the end of the message you wish to archive, press the ► button to see the message option screen. Move the pointers to the **Archive** item with the ▲ or ▼ button:



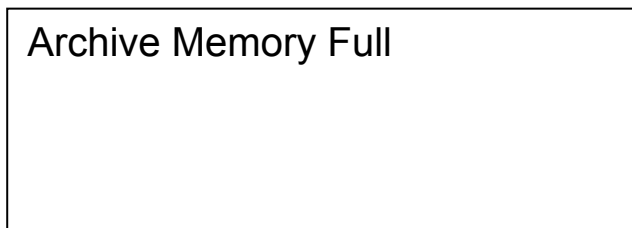
Select **Archive** with the ► button and the pointers will change to question marks.

Confirm your selection by pressing the ► button again. The screen will briefly display **Archiving**. When the current message has been archived, the screen will show the previously received message. If you wish to archive this message, repeat the procedure. If there are no other messages, you may return to the standby screen by pressing and holding the ► button for one second. The following screen will be displayed before returning to the standby screen:



No Messages

If the message archive is full the following screen will be displayed:

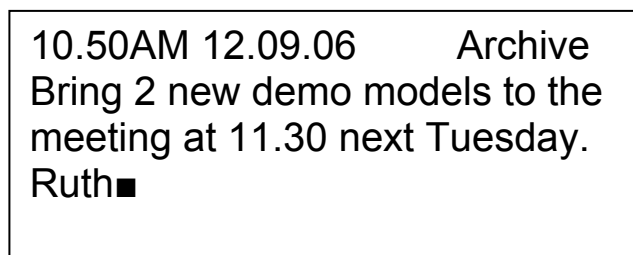


Archive Memory Full

The screen will return to displaying the current message. You will need to make space in the archive by deleting a message if you still want to proceed with archiving the current message.

Reviewing archived messages

To review your archived messages, press the ▲ button whilst the pager is displaying the standby screen:



10.50AM 12.09.06 Archive
Bring 2 new demo models to the
meeting at 11.30 next Tuesday.
Ruth■

The first screen of the most recent archived message will be displayed. You may select the archived message that you want to review, by pressing the ▲ or ▼ buttons until the first screen of the message is displayed. If the archived message is several screens long, you can view subsequent screens by pressing the ► button. The last screen of the message will contain the ■ symbol.

The top line shows the time and date that the message was received and to the right the message status **Archive** is displayed.

Deleting archived messages

To delete an archived message, press the ► button when the ■ symbol appears at the end of the message. The message option screen will be displayed:

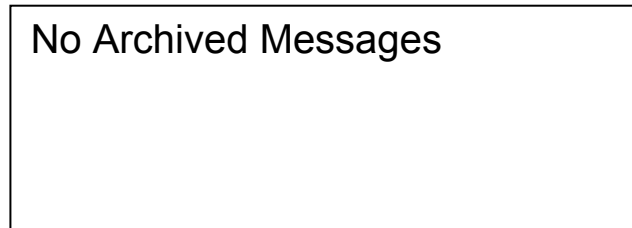
> View again	<
Delete	
Delete All	

Press the ▼ button to move the pointers to the **Delete** item and select by pressing the ► button. The pointers will change to question marks.

View again	
??> Delete	<??
Delete All	

If you do not want to delete, press the ▲ or ▼ buttons. To confirm that you wish to delete the message press the ► button again and the screen will briefly display **Deleting**.

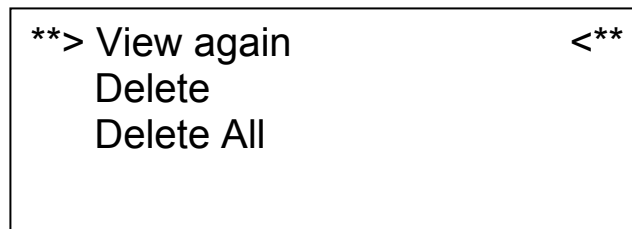
When the current message has been deleted, the previously archived message will be displayed. If you wish to delete this message, repeat the procedure. If there are no more archived messages, the following screen will be displayed before returning to the standby screen:



No Archived Messages

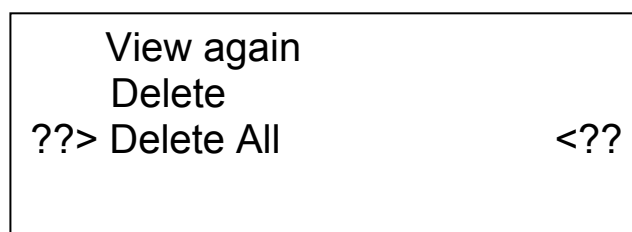
Delete all archived messages

To delete all of the archived messages, press the ► button when the ■ symbol appears at the end of a message. The message option screen will be displayed:



> View again ◀
Delete
Delete All

Move the pointers to the **Delete All** item by pressing the ▼ button. Select by pressing the ► button and the pointers will change to question marks:



View again
Delete
??> Delete All ◀??

If you do not want to delete all the messages press the: ▲ or ▼ buttons. To confirm that you wish to **Delete All** the messages, press the ► button again and the screen will briefly display **Deleting**. Having deleted all the archived messages the system will display the following screen before returning to the standby screen:

No Archived Messages

Set 12/24 hour mode

The Set 12/24 Hour Mode function allows you to change the clock display between 12 and 24 hour modes.

From the standby screen press the ► button. From the settings screen move the pointers to **Set 12 Hour Mode** or **Set 24 Hour Mode** by pressing the ▼ button:

Options
> Set 12 Hour Mode <
Enable Powersave
Power Off

Select this item by pressing the ► button and the pointers will change to question marks. Press the ► button again to confirm the selection.

Options
??> Set 12 Hour Mode <??
Enable Powersave
Power Off

Options
??> Set 24 Hour Mode <??
Enable Powersave
Power Off

Powersave

The power save function allows the display to blank after a period to extend the battery life. The display will automatically turn on if a button is pressed or a message received.

From the standby screen press the ► button. From the settings screen move the pointers to **Enable Powersave** or **Disable Powersave** by pressing the ▼ button:

```
Options
Set 12 Hour Mode
**> Enable Powersave      <**
Power Off
```

Select by pressing the ► button and the pointers will change to question marks. Press the ► button again to confirm the selection.

Setting the alert options

The pager allows full control of how the pager alerts when messages are received. The audible alert and vibrate alert can be set to 'off' or 'on'. From the standby screen press the ► button to select the settings screen:

```
**> Options                <**
Set 12 Hour Mode
Enable Powersave
Power Off
```

With the pointers on **Options** press the ► button again. The following screen will be displayed:

```
**> Display                <**
Auto-delete
Alert
Set Charge no Rx
```

Using the ▲ or ▼ button, move the pointers to **Alert** and select by pressing the ► button. The following screen will be displayed:

Audible Alert	On
Vibrate Alert	On

You are now able to modify the alert options. The currently selected item will flash. Each press of the ► button will advance the selection to the next menu item.

When the item you wish to change is flashing, press the ▲ or ▼ button to change its value:

The **Audible Alert** can be either enabled, or disabled.

The **Vibrate Alert** can be either enabled, or disabled.

Once your desired alert options have been selected, press and hold the ► button for one second and the pager will return to the standby screen.

Setting the message display options

Your pager is equipped with display options and these may be set according to your personal requirements. To change the message display options, press the ► button from the standby screen. The settings screen will now be displayed. Select **Options** by pressing the ► button:

> Options	<
Set 12 Hour Mode	
Enable Powersave	
Power Off	

Select **Display** by pressing the ► button:

> Display	<
Auto-delete	
Alert	
Set RX on Charge	

The following screen will be displayed:

Font	2
Backlight	On
Display Timeout	16s
Contrast	16

The selected item will flash. To select the next item, press the ► button. Each press of the ► button will advance the selection to the next menu item. When the item you wish to change is flashing, press the ▲ or ▼ buttons to change its value.

The **Font** option can be set to 1, 2 or 3:

- Font option 1: - Corresponds to a text size allowing up to 6 lines per screen.
- Font option 2: - Corresponds to a text size allowing up to 4 lines of larger text per screen.
- Font option 3: - Corresponds to a text size allowing up to 4 lines per screen of larger text, in a bold font.

The **Backlight** can be either enabled, or disabled. When disabled, it will help to prolong battery life.

The **Display Timeout** can be set to 8, 16, 32 or 64 seconds. This option determines the length of time that selected screens remain

on display before reverting back to the standby screen, if no buttons are selected.

The **Display Contrast** can be increased, or decreased.

When you have finished setting your display options, return to the standby screen by pressing and holding the ► button for 1 second.

Setting auto delete

The **Auto Delete** function allows you to set the maximum number of stored messages, excluding those in the **Archive** memory. If the number of messages exceeds the selected number, then the oldest read message is deleted. Should there be no read messages, then the oldest un-read message is deleted instead.

If the **Auto Delete** value is changed and the number of messages currently held exceeds the new setting, one message will be deleted per minute, until the new setting is achieved. The available options are 1 to 6 messages. To access the **Auto Delete** function, press the ► button to display the settings screen:

```
**> Options                               <**
    Set 12 Hour Mode
    Enable Powersave
    Power Off
```

Press the ► button to select '**Options**'. Move the pointers to **Auto-delete** by using the ▲ or ▼ button and select using the ► button:

```
Display
**> Auto-delete                             <**
    Alert
    Set RX on Charge
```

The following screen will then be displayed:

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Auto-delete	5
-------------	---

Press the ▲ or ▼ button to change the setting and then return to the standby screen by pressing and holding the ► button for one second.

Receiving alerts while charging

When using a quad charging rack or a single pager cradle for charging, the pager can be configured either to display or not display alerts.

To access the **Set Rx on Charge / Set Charge no Rx** function, press the ► button to display the settings screen.

>	Options	<
	Set 12 Hour Mode	
	Enable Powersave	
	Power Off	

Press the ► button to select **Options**. Move the pointers to **Set Rx on Charge** or **Set Charge no Rx** by pressing the ▼ button:


Select by ► button and pressing the the pointers will change to question marks. Press the ► button again to confirm the selection.

	Display	
	Auto-delete	
	Alert	
>	Set Charge no RX	<

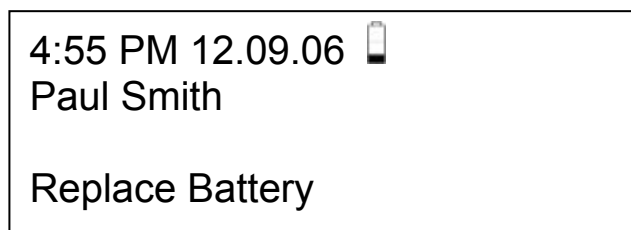
Battery condition indicator

When the battery is charging the battery condition indicator will show that it is charging. The name of the pager will also move to the bottom line. When the battery is fully charged the battery condition indicator shows a full icon.

Changing the battery

The pager displays the battery condition () in the top line of the display. The black bar indicates the level of charge.

When the battery is near the end of its operating life, the pager is programmed to provide a visual, audio and vibrate alert warning. The normal audible beep alert will change to a different tone and the **Replace Battery** warning will be displayed on the standby screen:

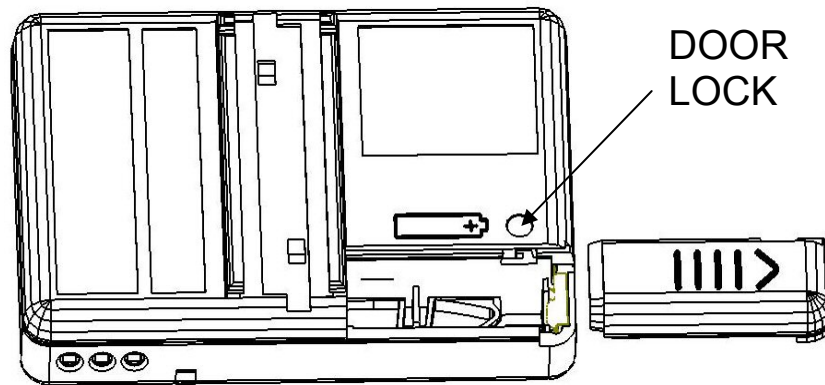


The pager will continue to operate normally for several days. To ensure that calls are not missed, the old battery should be replaced with a fresh AAA sized cell as soon as possible.

Note: The pager must be fitted with NiMH batteries if it is to be used with a charger. Use of the charger with any other battery type may damage the pager.

To remove the battery door, press and hold the battery door lock 'pip' on the back of the pager. At the same time slide the battery door off in the direction of the arrow.

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Insert the new battery in the direction as shown on the case back, by sliding in the negative (-) end first. Slide the battery door back into position so that it locks automatically with a click.

Dispose of the old battery carefully with consideration for the environment and do not recharge or incinerate alkaline batteries.

Notes:

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