P137 Advanced Pager

Supervisor Handbook

P137BAA(64 Channel), P137CAA(8 Channel)

www.alert-it.co.uk

Contents

Overview

The Alert-it P137 Pager is a powerful monitoring device for radio linked alarm systems. It can receive status transmissions up to 64 alarm monitors (depending on model) and alerts the user should any enter an alarm condition. The alarms are classified into 4 levels and the alarm display is prioritized in terms of level and age.

In addition, any monitor can be deemed of high integrity, in which case the carer is alerted if the radio link to that monitor fails. This is achieved by monitoring a heartbeat signal that is sent approximately every 8 seconds from such monitors.

Lastly, any monitor can be additionally set to detect the transmitter moving outside a pre-defined geographical area. This is achieved by calibrating the minimum acceptable radio signal strength from the monitor, and if it falls below this value then the carer is alerted.

For convenience to the carer each monitor can be named to suit the application and each level of alarm plays a different "tune". The pager can also be used in a discrete vibrate mode, as may be preferred for night use.

The P137 pager can send all alarm details to a computer using an optional USB interface (P146). This link also allows:

- all the user data to be saved and reloaded from a computer (eg for cloning replacement pagers) using P172C software
- triggering additional equipment such as telephone autodiallers or sirens.
- IP-IT Statement.

The term NODE appears in the pager display and is referenced in this manual. It is synonymous with monitor, referring to any device that can generate an alarm

Operation

Turn On

Press MENU for 3 seconds and the display will come on and show the PRODUCT name followed by 4 digits for the software Version/Issue and 4 digits for a special checksum that allows the manufacturer to offer unique installation codes. The normal code is 07A6.

First Time Operation

As shipped the pager will be in "Extended User Mode". The Supervisor can restrict the user functionality as well as use more advance features of the pager, especially concerned with the Configuration and Administration of systems and computer communications.

The Supervisor mode is enabled by entering a password when required within the menu structure.

If the pager has not been configured before delivery, then at the first time of using the EDIT/SET-UP menu the user will be prompted to start entering new monitor information manually.   There are many alternatives to this for configuring a system, so for full details of System Configuration see handbook "*UH1068C P137 Configuration Manual*"

Unpaired Monitors

Normally a care home will have all monitors paired to the pagers used. However if this is not the case then any unpaired monitors will flash up the name "NEW!" followed by 4 characters which can be used to trace the source. To prevent a nuisance to the carers, then this display (ViewAll) can be turned off in the FUNCTION menu.

Range Testing

It is essential to check that all the monitors are capable of reaching the pager with their radio. In health critical situations the Safelink radio should be operated in Failsafe (Securelink) mode. See the individual monitor instructions on how to enable this.

Turn Off

Press the MENU for 3 seconds until "Setup and Edit" is displayed, followed by "User Mode". Press the right key. If the Extended User mode is disabled then enter the password. The next menu item is Turn Off. Press the SELECT (up) button.. DO NOT REMOVE batteries to turn off the unit as this will damage the battery contact.

Backlight

The Backlight automatically illuminates for 15 seconds after an alarm is received and again for 15 seconds if any key is pressed. It is always enabled for menu modes.

Overview of Functionality

Extended User/Carer Mode

The supervisor is able to allow the carer a greater level of control (default mode is enabled). In this case the basic carer menu mode extends to cover;

1. Turning the pager off
2. Resetting alarms manually (rather than only via resetting the transmitter).
     Warning: If the alarm is reset manually then the statistics of time to respond is considered not valid for this alarm and the time value is not therefore stored. Note: If the transmitter is not reset then the alarm maybe be re-transmitted every 8 seconds, which will re-activate any alarms.

Basic User/Carer Mode

1. Listing all registered (or new) monitors. If a monitor is selected, then the basic user can only view (not edit) the monitor properties.
2. Setting the USERmode for such items such as playing tunes, key beep, vibrate on/off, backlight on/off
3. SNOOZE, which silences alarms for 5 minutes and shows all the active alarms in a list

Supervisor Functions

The supervisor mode is enabled by entering the correct 4 digit password when requested. The default password is 1900. This extends the menu to cover:
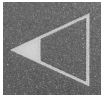
1. Adding monitors
2. Deleting monitors
3. Auto-registration of monitors
4. Enabling the extended user capability.
5. Setting the operating environment for the user
6. Enabling more advanced system monitor functions
7. Resetting the password
8. Programming monitors with monitor address/type
8. Enabling re-programming of the pager data or software from a computer

Changing Node Information

The Supervisor can adjust the Address/Type/Name and Failsafe Operation of each node from the LIST/PROPERTY menu, BUT the password must be entered in the initial menu level first (ie after entering Setup&Edit scroll right until the PASS-WORD is requested, then go back to LIST and edit if required.

	Hold down 3 seconds to enter Set-Up and Edit menus. Press to abort menus, one level at a time also used to scroll through numbers & letters as required.
	Scroll back and forth through menus or select settings shown on the display above the key.
	Press to display list of active alarms. In menu mode also used to scroll through numbers and letters or select an option.

Example edit screens

	Scroll through menu and select option. Menu drops back a level in the menu.
	Select/Menu scrolls the number/letter over cursor. Left key accepts the value, right key selects next.
	Next step will be to accept the value with left key, repeat entry with the left key or abort the process with the Menu key.
	Left and right keys change the option. Select key to activate the selected option, menu key to abort leaving function unchanged.
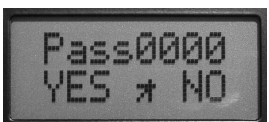
The following special Engineering Mode is available and will be used during telephone help if required

Node Test

In Node Test mode the lower half of the display shows, in numeric format, the radio data baud rate error and the signal strength.

USER Menu Structure

Display Node Data or alarms

3 sec hold

1 menu

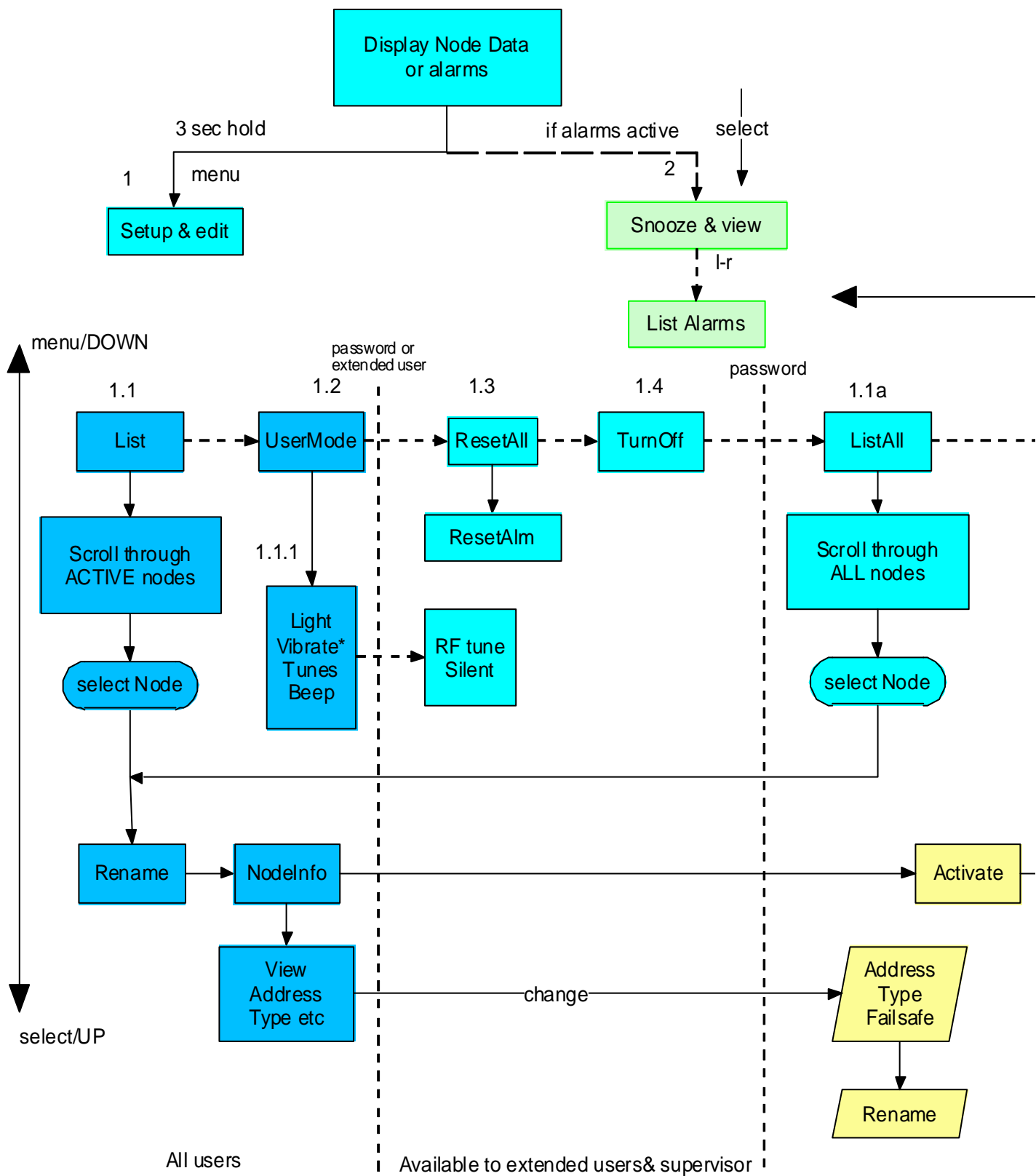if alarms active

select

2

Setup & edit

Snooze & view

l-r

List Alarms

menu/DOWN

password or extended user

password

1.1	1.2	1.3	1.4	1.1a
List	UserMode	ResetAll	TurnOff	ListAll

Scroll through ACTIVE nodes

1.1.1

ResetAlm

Scroll through ALL nodes

select Node

Light
Vibrate*
Tunes
Beep

RF tune
Silent

select Node

Rename → NodeInfo → Activate

select/UP

View
Address
Type etc

change

Address
Type
Failsafe

Rename

All users

Available to extended users& supervisor

*Tunes automatically on if Vibrate off (unless Silence enabled by Superviusor in FUNCTION

Supervisor Menu Structure

Left/Right →

1.5	1.6	1.7	1.8	1.9
Add Node	Auto-Add	Function	DataProg	SetPass

End-Add

Address
Type
Failsafe

Node
Added
y

Flash
UserData

4digits

Rename

Rename

ViewNew
ViewFirst
User Ext*ended
Silence?*
Events
Faults
NodeTest

Wander

ProgUnit

Delete

Reset
SetLimit
Adjust

Saving
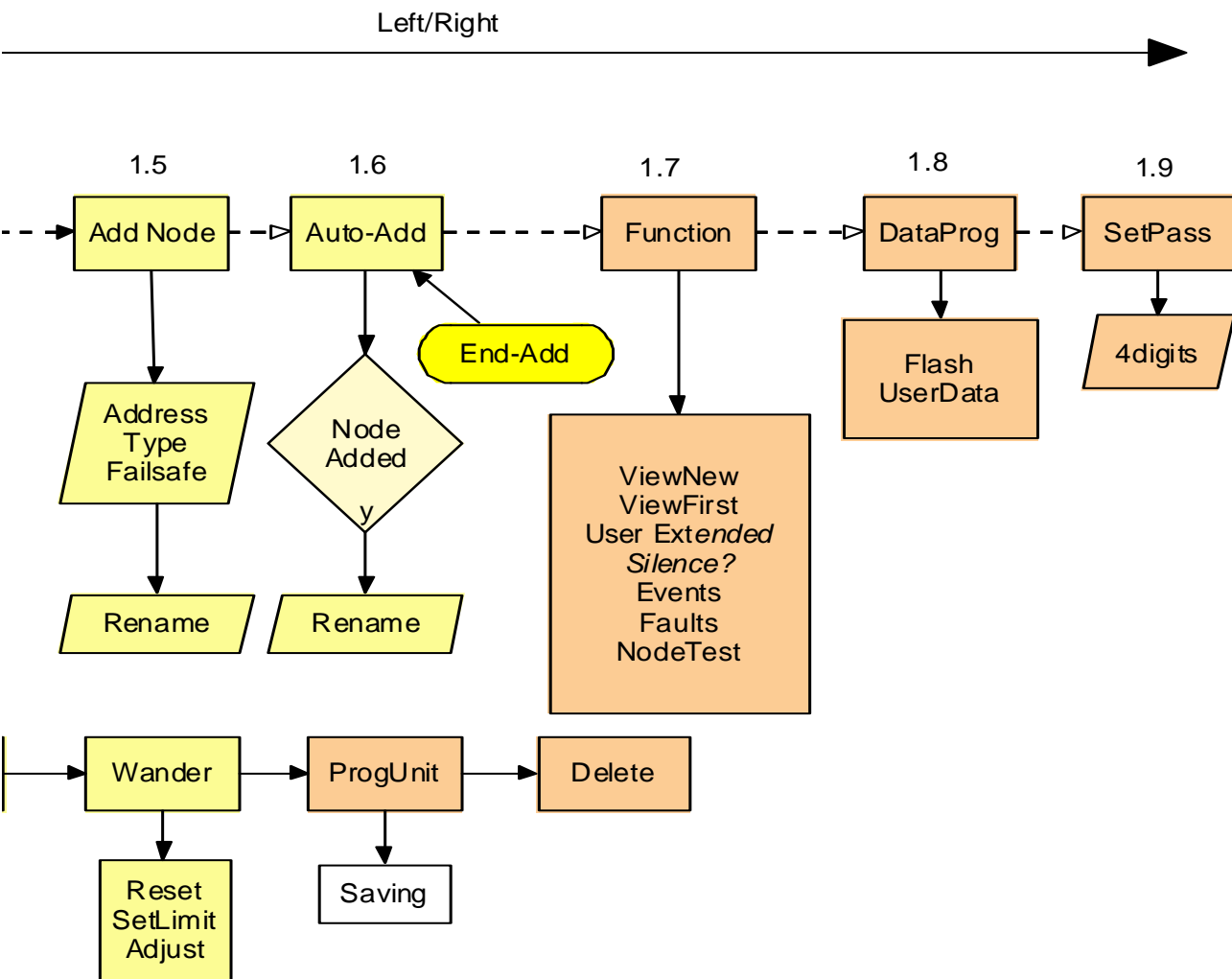
Supervisor only

Version 8

Details of Menu Features

Standby Operation			
1	Enter "Set-Up & Edit"	After pressing MENU for 3 seconds	See next Main Menu table
2	Snooze & View	Press select to silence any alarm for 5 minutes	Left/right will now list all active alarms. Menu returns to standby.

1. Main Menu			
1.1	List	List all the ACTIVE nodes with access to a sub-menu of features see 1.1	Only supervisor can see Deactivated nodes and reactivate them
1.2	User Mode	Change main user features see 1.2	E.g Light, sounds and vibration
	Password(bypassed for extended users)		
1.3	Reset All	Reset all alarms	They will be reactivated if the node is still transmitting an alarm message
1.4	Turn off	Turns off the pager	Restart by pressing MENU key 3 seconds
	Password		
1.1a	ListAll	List ALL nodes with access to a sub-menu of features see 1.1	supervisor can see Deactivated nodes and reactivate them
1.5	Add Node	Add a node annually (with address/type/failsafe/name)	Enter Address, Type, Failsafe on/off and rename
1.6	AutoAdd	Node are added automatically when a transmission is received	After each addtion, edit node name and enable process for the next one
1.7	Function	Enables and disables features	See 1.7.1 below
1.8	Data Programming	Enables the pager to be upgraded (flash) or the node information to be overwritten (user data)	Used with the P146 USB Interface
1.9	Set Pass	Set Supervisor password	Default 1900 (see Manufacturer for P138)

1.2 User_mode sub-menu			
	Light	Turns backlight on/off	
	Vibrate	Turn on/off vibrate	Tunes automatically on if vibrate off unless SILENCE enabled in FUNCTION
	Tunes	Turn on/off Tunes	
	Key Beep	Silences the beep on key press	
	Password(bypassed for extended users)		
	RF Tune	Enables tune for RF Fail Alarms	Useful to silence alarm if equipment node off

1.1	List & ListAll	Scroll left & right through the list of nodes and press up to select one for detailed menu	Lsat & ListAll are similar. List only shows activated nodes ListAll requires password & shows all nodes with ability to edit information
	Rename	The node name can be changed	In ListAll only activated nodes can be renamed
	Node Info	Shows node address/type & status. Select No to manually edit values in ListAll	Also shows middle: W= Wander mode enabled F= Failsafe mode enabled X=Deactivated
	Activate	No stop node showing alarms and hides in user LIST function	The "Name" has first letter corrupted to show it is not activated in the ListAll function
	Wander	The wander mode can be Reset (turned off), Automatically set Manually Adjusted.	See configuration manual for full details.
	Program Unit	Current node setting sent to a connected module to clone it.	Connect lead to transmitter module first. Press YES to complete action. If successful "SAVING" displayed and returns to LIST menu.
	Delete	Delete the current node	Confirm to activate delete
1.7	**Function sub-menu**		
	ViewAll	ON: Show transmissions, even if NOT registered to this pager	OFF: Show only registered monitors (ie NEW! Is suppressed)
	NewFirst	If YES then any new alarm overwrites an existing alarm equal priority	All active alarms can be viewed in Snooze&View
	Silence?	On allows both Vibrate & Tunes to be off	Use with care as alarms could be missed
	UserExt	Allow user extended functions	
	Events	When off some fault codes are hidden from the carer	These codes have special application in logging movement only
	Faults	When off ALL fault codes are hidden from the carer	This should only be OFF if at least one pager in the building (eg supervisors) is on to show faults such as low battery
	Node test	Shows precise information about the node radio strength and frequency. The USB port also logs all the node packet details at each transmission.	For engineer use in system checking. Automatically enables ViewAll. **N.B. Alarms are NOT shown in this mode just the signal quality**

Typical Pager Set-Ups

Individual Pagers (typically care homes)

The supervisor can set the pager so that:
- The pager only responds to some or all of the monitors in the home
- The carer is not troubled by maintenance information (eg low battery in a monitor or a NEW monitor discovered on-site)
- Multiple alarms are queued behind the current alarm (unless of a higher severity level) until the carer resets the current alarm.
- The care staff can change the name/location of any monitor
- Staff may be barred from turning off the pager

Communal Pagers (typically supporting a Nursing group in a hospital)

The supervisor can set the pager so that:
- The pager only responds to some or all of the monitors on the ward
- The carer is not troubled by maintenance information (eg low battery in a monitor or a NEW monitor discovered on-site)
- A second alarm of the same severity as the current will overwrite the screen on the basis that the first is being attended already.
- The care staff can change the name/location of any monitor
- Staff may be barred from turning off the pager

Supervisor/Maintenance Pager

If the carer pagers are restricted to patient alarms only, then at least one pager in the system MUST
- Indicate faults (such a battery low on monitors)
- Indicate NEW monitors in the area (optional)
- Can be set on SILENT provided regularly reviewed.

Function Menu Settings for above

Function	Individual	Communal	Supervisor
ViewNew	Off	Off	On
New First	Off	On	As Preferred
Faults	Off	Off	On

Maintenance

Cleaning

The unit is sealed to level IP61 and can be cleaned according to our standard procedure below.

Technique B

Wiping with cotton wool pads moistened (compressed until dripping stops) with a mild detergent (0.5% washing up liquid) solution.

Battery Charging:

The pager is powered by two rechargeable NiMH AA cells 2300mAh or greater. These are charged in situ if:

A 9V adapter (1.3mm pin) is connected to the DC inlet socket

Or the unit is situated in the P146 USB Interface with a 12V adapter (2.1mm pin) connected.

When the unit is switched on and power applied the display will indicate "charging" in standby, instead of "battery" with two different icons for fast and standby charge. On fast charge the pager may feel warm to touch, which is normal.

DO NOT TURN OFF THE PAGER BY REMOVING THE BATTERIES AS THIS CAN DAMAGE THE CONNECTIONS.

If the care staff insist on doing this, then turning off the extended user mode will not only prevent them from turning the pager off, but also leave a "New Batt" message on the display if they remove the batteries. This is cleared by entering the password.

DO NOT USE NON RECHARGEABLE BATTERIES AS THESE CAN EXPLODE IF THE CHARGER IS USED.

Safety Notices

⚠ The system complies with 93/42/EEC as a Class 1 Medical Device
The system complies with EN60601 for Class 2 Electrical Safety and does not need a protective earth.

- Ensure that the sensor cable is routed and secured to avoid the risk of entanglement or strangulation.
- Ensure the power cable is routed to avoid a trip hazard.
- Regularly check the power supplies for damage and potential shock risks.
- Ensure, by testing, that the alarm is annunciated at the carer's location(s).
- Clean and disinfect each item regularly in accordance with information on page 13
- Regularly test sensors as defined herein.
- Use only the power supply and batteries recommended.
- Use the power supply and charge pager away from direct heat and uncovered.
- As with all medical electronic equipment there is potential for the equipment to interfere with or be effected by interference from other electrical or electronic devices. For this reason avoid placing the monitor, sensor or connecting cable in close proximity to sensitive electronic devices or devices which produce strong electromagnetic fields such as radio transmitters, mobile phones or power cables.
- Only use the monitor with accessories approved for use with this product and only in accordance with instructions.
- If the equipment is modified in any way, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.
- The carer must conduct a risk assessment to determine if the level of reliability offered by the monitor is sufficient or if additional monitoring is needed. Contact the manufacture for assistance with Risk Evaluation Tools.
- Additional levels of mechanical protection may be needed for some patient disorders. Contact the manufacturers for advice.
- The pager "Extended User" option should be disabled if there are concerns that. the carer may turn-off the pager inappropriately and ignore alarms.
- Some products are supplied with small items e.g. screws and have plastic bags. Ensure these do not come into the possession of vulnerable patients who might choke on them.
- The full pager specification is met as a portable unit. It may, however, be affected by mains bourne interference while on charge, but the safelink safety function remains unaffected.

The Alert-it system has been designed with due regard to reliability and integrity. While it offers a highly vigilant monitoring method,it is always possible that a distress condition can go undetected for a variety of reasons (including malfunction) and in life threatening situations it is advisable to use the Alert-it system in conjunction with additional monitoring techniques (e.g. video). Neither the manufacturer nor its agent can accept legal responsibility to provide a system that is infallible. The carer is responsible for assessing the risks of using this equipment and any settings pertaining to it.

None of the components, including batteries should be disposed of as Domestic Waste. For information on disposal contact iTs Designs Ltd.

Accessories	Part No.
Power Supply (9V)	P153
USB Docking Station	P146A
Power Supply for Docking Station	P171
IP-IT	P190A
Configuration Editor Software	P172C
Spare Batteries (Pack of 2)	P160C

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