

This system is certified to the following European Standards

93/42/EEC¹	Class 1 Medical Device
73/23/EEC	Low Voltage Safety
BS EN 61010-1	
89/336/EEC	Radio Interference Immunity
BS EN 50081-1:1992	
BS EN 50082-1:1995	
BS EN 300-220-1	
2002/95/ECRoHS	Permitted Materials

¹Alert-it Care Alarms are social aids designed and manufactured in accordance with 93/42/EEC as Class 1 Medical Devices. They are intended to improve the vigilance of carers to distressing side-effects of various diseases, such as Epilepsy and Dementia. They do not monitor vital physiological processes and should not be expected to diagnose any disease or predict the onset of any symptoms.



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

Support

For technical support please fax or EMail:
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...using technology to care for carers

Alert-it Care Systems

P135 Fall and Panic Alarm Badge

User Handbook



One of a range of Alert-it Care Alarms available from:

Quick Reference Sheet: Operation (cont)

The P135A is a miniature badge style alarm detector that is capable of sending alarms to the P137/P138 Safelink Pagers or P117C Telephone Autodialler, which is especially suited to those living alone. Typical range outdoors is 80m (450m for the P135B, extended range version). It can also be coupled to established Nurse Call systems via our P155 Radio Alarm Receiver.

The alarm can be triggered by the user pressing the front call button or automatically if he/she collapses and lies prone for a preset time. A period of audible/visual warning occurs before the fall alarm is sent, to allow the user time to reset any potential false alarm.

The P135 can be set for failsafe operation which ensures that the radio link is never unknowingly compromised. In this mode the units can also serve in a Wander Detection system based on the P137/8, which can monitor the radio signal strength and hence warn of a client potentially being out of a safe area (see P137 Handbook).

All the features are programmable via a P152 USB interface to a PC and can be easily re-addressed directly from the P137 Pager.

The unit is powered by a thin Lithium battery that can give up to 1 year service in the non-failsafe mode (depending on alarm frequency). This unit warns of low battery status by sending a fault alarm to the pager.

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 any legal responsibility to provide a system that is infallible.

In a fall, when the P135 is made horizontal then after 15 seconds an audible alarm pre-warning will start and the red light will flash. The initial, silent delay prevents false alarms during normal movements. The pre-warning tone decreases in pitch over 15 seconds (to assist those with impaired hearing). If the user does not return to the upright position during this period, then the tone stops and the full alarm is transmitted. The red light continues to flash to indicate the latched alarm

Pressing the **panic button** for 1 second will produce a short beep and the alarm will be sent immediately. The red light will then flash to indicate the latched alarm status.



Clearing the alarm
If the panic button is pressed for 1 second, while any alarm is active (the red light flashing), then, after a short beep, the alarm will be cleared. This is noted by the light extinguishing

Alarm indication at the pager/receiver

Alarm	Detect Delay	Pre-warn	P135	Pager	P155 /P117C
Panic	1 second	No	Flash	Assist 01	Intermittent tune + alarm
Fall	15 second	15 second	Flash	Urgent 01	Continuous tune + alarm
TEST	Less than 1 sec	No	Flash	Node Name	Green light flash
Battery Low	-	-	Flash every 8 sec	Fault 30	Intermittent tune, + alarm
Battery Fail	-	-	Flash every 8 sec	Fault 31	Intermittent tune, + alarm
Battery Dead	The P135 beeps every 0.5 sec with no LED and no transmission				

Quick Reference Sheet: Operation

Regular Test:

In the non-failsafe mode the battery will last up to a year, but should be checked regularly by making a short press of the Panic Button (less than 1 second so that no beep sounds). If the battery is serviceable then the light will flash. The P135 will also transmit at this time, and successful receipt of a signal at the pager/autodialler should be noted. If either test fails then replace the battery.

Battery Failure

When the battery needs replacing the red light will flash slowly (every 8 seconds) and a fault alarm will be transmitted. When used with the P155 Receiver or P117C Autodialler this will result in an apparent false alarm, but the state of the light should be observed to check if a new battery is needed. The Pager is capable of showing explicitly that a new battery is needed.
For details of battery replacement see the Installer Handbook

READ FIRST: Essential Safety Information

Safelink activation

The failsafe feature of your P135 Fall Alarms has been set as follows:

With the Safelink failsafe feature activated. Any weak radio will be self-revealing as an "RF Fail" alarm on the pager/autodialler.	
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With the failsafe feature deactivated to maximise battery life. In this case please observe the range test described in the installer handbook to ensure adequate area coverage.	
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The above settings are controlled by a link in the P135 and setting the failsafe mode for the alarm at the pager/autodialler, which are all described in the installers handbooks. Please contact iTs Designs Ltd for assistance changing these settings

P135 Batteries

To prevent the fall alarm activating in the post, the P135 is shipped in a de-activated state. The RED PANIC button must be pressed until a beep is heard to activate the unit for the first time. (The same procedure is needed after battery replacement)

In Safelink mode the batteries may last 2-3 weeks depending on use. A spare battery is included and replacement batteries can be purchased from most electrical suppliers or watch repairers. A card of 5 batteries is available from iTs Designs Ltd (order code P160)

Typical System Configurations

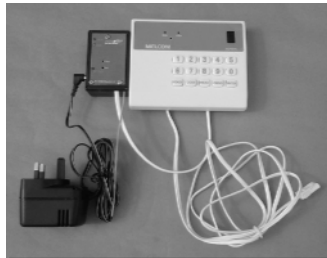


The P135 Badge uses radio to transmit an alarm when a fall is detected or the panic button is pressed

Optionally the P135 can make a regular transmission which is used by the P137/8 pagers to prove the integrity of the radio network and can be used to detect wandering outside a safe area. The regular transmissions will reduce battery life



The P137/8 pagers will give full details of battery and alarm status. It can also use the regular Safelink transmission to warn of wandering or radio failure



The P155B Radio Receiver can connect to a Nurse Call system or an autodialler (as shown). The P155 shows successful radio reception by the flash of a green light. It will warn of radio failure when the Safelink protocol is enabled by a red light and audible alert

Quick Reference Sheet: Installation

Wearing the P135:

The unit should be clipped to clothing using the rear clothing clip or pin, in a position that best fits the anticipated fall condition. Clipping to the waist band is an excellent place that is unobtrusive and capable of detecting a full fall with few false alarms. For those prone to slumping while seated then clipping to the upper torso is recommended. This also gives easier access to the panic button.

Operating Mode

No failsafe heartbeat, no alarms
Using failsafe heartbeat, no alarms
Maximum alarm number ¹

Battery capacity

1 year
1 month
2000 alarms

¹ Based on fall alarms with 2 minute response time from carer

For details of battery replacement please refer to the Installer Handbook

Battery Type: 3v Lithium Coin Cell CR2025 or equivalent
(order code P160 for 5 batteries)