

## Associated Publications

Q1000 CE Certificate  
Q1001 Health Service PPS Declaration

### Support peripherals:



P117 Auto-dialler



P119 Remote  
Annunciator

P120C Connecting lead  
P120A Extension lead



P145 Nurse Call Lead

### Support

For technical support please fax or EMAIL:  
HELP: 0845 2179951  
FAX : 0845 2179953  
Support@itsdesigns.co.uk

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...using technology to care for carers

# Alert-it Care Systems

## P139 Wired Bedside Monitor System

### Installation Handbook



This booklet covers installing all the sensors available for use with the P139A and P139C and as supplied in the S1017. Individual systems may differ due to omission of some items

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

The S1017A is a complete bedside monitoring kit comprising of the P139A wired output monitor and a full range of sensors (as illustrated). To special order the kit can be supplied with various sensors missing and hence disabled in the set-up menu.

The alarm indication is local (visual and audible) with the option to connect a switched output to other annunciator equipment. The P139C variant, supplied to order, offers additional Ethernet connectivity for networks

All the external sensors can be replaced in the event of damage, using the order code shown

### Integral Alarm Receiver (P139xxB)

An option for the P139 is to include a Alarm Radio Receiver module which can be paired with a range of radio linked sensors from Alert-it (eg P135 Personal Alarm Badge which can detect falling or panic). For pairing of the units please consult the manufacturer  
On receiving an alarm signal the module will trigger the P139 Distress Alarm. This will usually automatically clear when the alarm transmitter is reset (determined by the P139 settings). During such an alarm state this module will play a audible tune dependent on the severity of the alarm.

The module can be set to delay triggering the Distress Alarm (while still playing the tune), which will allow the client time to cancel any false alarms (eg while bending down)

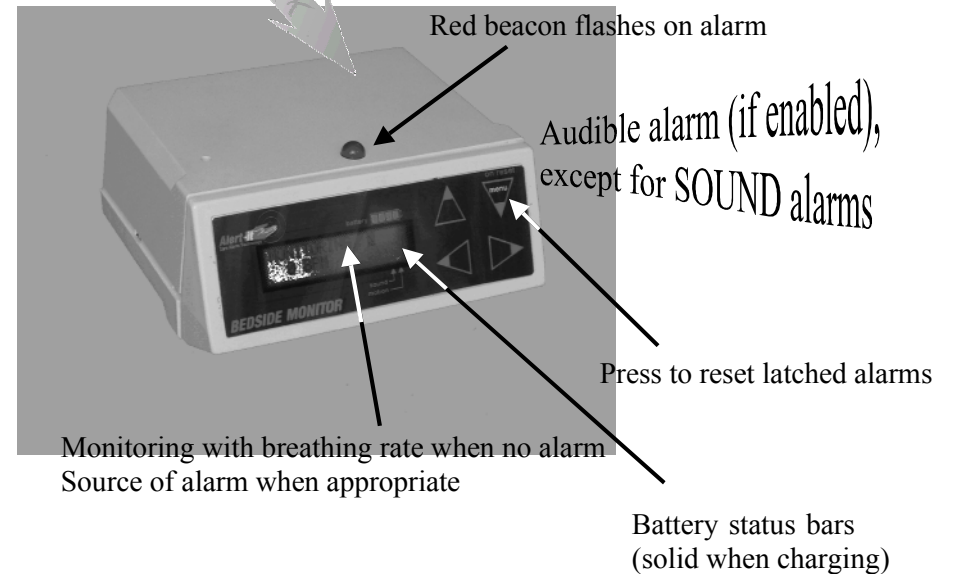
The Alert-it system has been designed with due regard to reliability and integrity. While it offers a highly vigilant monitoring method, it is always possible that a distress condition can go undetected for a variety of reasons (including malfunction) and in life threatening situations it is advisable 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.

## Quick Reference Sheet: Indications

### Radio Alarm (optional)

There will always be an audible tune, set by the severity of the alarm. The source of the alarm will be "DISTRESS ALARM"  
Normally the alarm is reset by resetting the transmitting device

If the tune plays but without activating a DISTRESS ALARM it indicates a fault with the transmitter (eg the radio signal has failed, or the battery needs replacing)



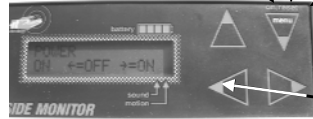
## Quick Reference Sheet: Operation

Turn the unit on by pressing the **on/reset** key for 3 seconds. All the enabled alarms will now activate.

Silence and reset alarms by pressing *on/reset*

Turn the unit off by pressing *on/reset* key, until screen appears as illustrated .

Then press left key



Regularly check the operation of the various sensors (see handbook for greater detail). Choose from the following list only those relevant to the installation.

**Breathing:** Check the small x symbol (and audible tick if enabled) occurs regularly with breathing. Disconnect any Bed Occupancy Mat and check an alarm sounds if there is no-one in bed causing breathing. Excessive force may produce the Movement icon (#), which is acceptable to prove the sensor is working.

**Movement:** Check the large # symbol occurs when the bed is depressed with force (equivalent to the seizure being monitored)

**Bed Occupancy:** Check the word VACANT is on the display goes as weight is put on the sensing mat.

**Sound:** Check the ear symbol appears when sharp sounds are made.

**Moisture:** Check an alarm is raised when the two press studs are shorted together by something metallic (eg paper clip or scissors). To fully test the pad, then just before laundering it is recommended that correct operation is confirmed by wetting with lightly salted water.

**Radio Alarm** (optional): Stimulate an alarm on the transmitter and check a DISTRESS alarm is indicated

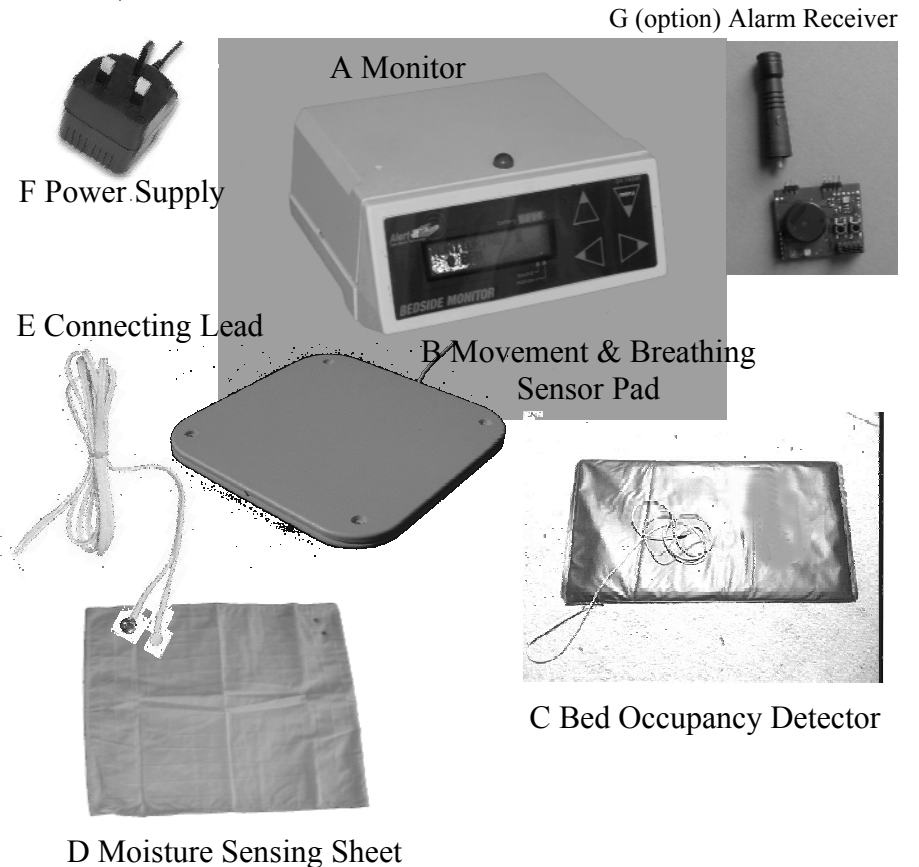
**Full Test:** Occasionally the whole alarm system should be checked by stimulating a full alarm on one sensor

### Cleaning:

The monitor and Movement Sensor can be wiped with antiseptic (eg alcohol) to ensure hygiene.

The Bed Occupancy Pad is water resistant and can be wiped with a wet antiseptic cloth.

The Moisture Pads are cotton and can be laundered. After prolonged aggressive washing the internal wires can break and the cloth will need replacing. Hand washing and hanging to dry will prolong life.



| Part Description                                 | Part No | Handbook |
|--|---------|----------|
| A Bedside Monitor                                | P139A   | UH1075   |
| B Movement & Breathing Sensor Pad                | P140A   |          |
| C Bed Occupancy Detector Mat                     | P143A   |          |
| D Moisture Sensing Sheet                         | P142A   |          |
| E Moisture Sheet connecting lead                 | P141A   |          |
| F Power Supply (UK)                              | P113B   |          |
| <i>Optional parts available to special order</i> |         |          |
| International Power Supply                       | P113A   |          |
| Integral Alarm Receiver                          | P155A   | UH1093   |

This system is certified to the following European Standards

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

<sup>1</sup>Alert-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.



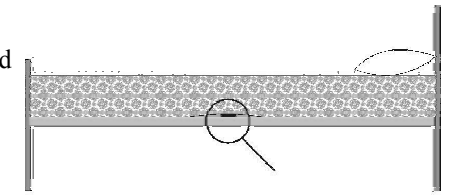
None of the components, including batteries should be disposed of as Domestic Waste. For information on disposal contact iTs Designs Ltd.



Note correct uppermost vie of sensor plate for maximum sensitivity

## Quick Reference Sheet: Installation

Install the Bed Movement Pad (B) underneath the mattress on a firm bed base., in a position below the rib cage. Its task is to monitor the smallest breathing movements transmitted through the mattress.



Install the Bed Occupancy Mat (C) on top of the mattress under a suitable cover sheet, in a position that ensures the maximum body weight is lying on the mat. With good weight adults and slim mattresses it may be possible to install this under the mattress, below the Movement Pad.

If required the Moisture Sensing Sheet (D) is positioned over the pillow for vomit/saliva detection or under the groin area for urination (ensuring that it is above the Bed Occupancy Mat). The special connecting lead (E) is fastened with press-studs which can be removed for washing.

The power supply (E) provides charging of the internal battery, which will function for many weeks without charging.

**Setting the many operating parameters for each sensor is a complex task and is covered in the P139 handbook in great detail, with quick-setup hints. It is highly recommended that sensors are set-up in a strict order so that each one is fully understood before testing another. This will prevent confusion as to any source of false alarms or inefficient operation.**

The rear panel output connector gives access to a voltage free switch that is activated on alarm. Normally open or closed operation is possible. There is also a 5v power feed to energise the switch if required. iTs Designs can supply a range of annunciator products and extension leads compatible with this output

