

Quick-start guide for P163B Wire linked Mobility Monitor systems: (S1034BB)

The P163A is a flexible monitor capable of using a range of sensing components and passing an alarm to a portable Nurse Call Pager. The system will have been provided with sensors and set for operating conditions to best suit your needs, within our experience and the information you provided. This leaflet is a quick-start guide to installing, testing and using your system. After installation we are pleased to offer you a full system check via our telephone helpline, and would urge you to use this service. Should you wish to change any of the operating parameters or modify your system in any way, then detailed handbooks are available on request or on-line at www.alert-it.co.uk/handbooks/

Install the sensing components

The following covers the different sensing options available with the monitor

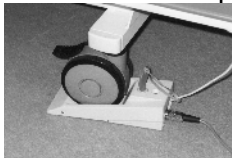


The P149B **Chair Ribbon** is installed under the chair cushion, or inside the cover, in a position that ensures it bends under body weight. If mounted to the rear of the chair it will preempt the client leaving.

The P143 **Bed Occupancy** Mat is installed on top of the mattress under a suitable cover sheet, in a position that ensures the maximum body weight is lying on the mat, typically below the upper torso. Under the shoulder area is a good place if an alarm is required before the users feet touch the floor.

The P150 **Floor Mat** can be placed by a bed or in a door way to detect mobility. It is only suitable for use on a carpet floor, to enhance sensitivity and reduce slipping. An anti-slip underlay is available from iTs Designs if required. The cable should be run to the P163 in such a way as to reduce any trip hazard.

To use the P144 **Weight Sensor**, the bed/chair leg is positioned in the recess of the wedge. For beds it is recommended to use a leg near the headboard which carries greater patient weight. On wheeled legs it is best to lock the wheels where possible as movement within the recess can affect the weight setting.



The P163 can be supplied with a wide range of sensing switches, which will be installed as directed in their own handbook

Connect to P163 and test

The connection of any sensor to the P163 is by means of a telephone style 6 pin connector, which should be pushed home until the click of the latch is heard

The P163 Alarm signal is available on the OUTPUT socket as a changeover switch. If a P145 Nurse Call cable has been provided then this should be connected to the Nurse Call room box (in place of any Call Button unless a special equipment socket is provided).

Turn on the P163 by removing the Red plug-in key. The P163 has a internal battery or an external 12v power adapter can be used. A rechargeable option (P163D) is also available. For this unit there is no power key as the protection battery is permanently on. Press the RESET for 5 seconds to enable the battery after first installation.

These tests must be repeated regularly to check the sensors

Chair or Bed Occupancy (S1034B): After pressing RESET the P163 will be in a disarmed state awaiting the user to return. By pressing the mat the unit will arm and emit a beep, which proves the successful operation of the mat. This makes an ideal test of operation.

Floor Mat (S1034A): Stepping on the mat will raise an alarm, which has to be cancelled by the RESET button on the P163

Normal Operation

Remember that most sensors operate with a time delay to reduce false alarms. The Bed Mat systems can be set for a prolonged delay (eg 6 minutes) to detect falling in the bathroom at night. The output is normally configured as a “closing switch” which makes contact for 2 seconds when an alarm is triggered. The ALARM LED will flash to indicate that the alarm has been triggered. The exact form of the alarm annunciation will depend on the ancillary equipment supplied. The P145 Nurse Call lead will pass the alarm to the resident Nurse Call System or a Telecare system. The P117A Autodialler will pass the alarm details by telephone.

Reset

The alarm will automatically reset when the user returns. Hence only the Nurse Call/Telecare system will need to be reset.

S1034B only:

Bed & Chair Occupancy reset has a special feature to prevent false alarms during the day. If the RESET button is pressed at any time with the occupant out of the bed/chair, then the alarm detection is inhibited until the sensor is next activated, indicating that the client has got into the bed/chair and is therefore now to be monitored.

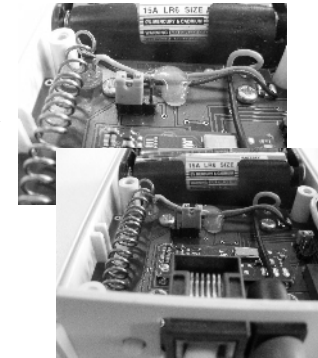
System components and connection

(actual components supplied may vary to order)

Part Description	Part No
A Monitor	P163
B on/off key	P163C
C Mains Adapter (optional)	P171
D Nurse Call lead (to order)	P145x
E Bed Occupancy Pad	P143C
H Chair Occupancy	P149B
G Bed Leg Weight Monitor	P144B
H Floor Mat	P150C

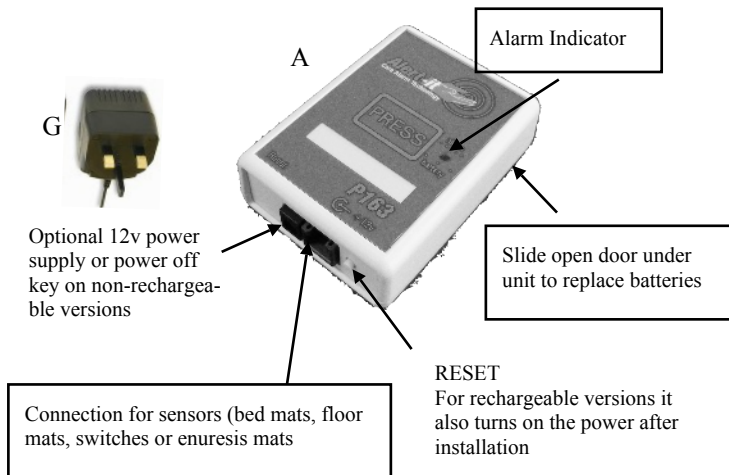
Instant/Delay link (S1034B)

The Bed & Chair occupancy systems (P143, P144, P149) can be set for instant alarm or for an alarm after 5 minutes (or any delay to special order). The choice is controlled by an internal link. To access this link, then remove the base by removing the 4 corner screws.. The link can then be set as shown below:



Alarm will occur instantly

Alarm will be delayed



Battery replacement

If the red ALARM light begins a slow flashing sequence (every 8 seconds) or monitor starts chirping, then the battery needs replacing.

The battery door slides open and batteries are replaced

Full adjustment details are found in handbooks available on:
www.alert-it.co.uk/handbooks/
 Or by phoning Alert-iT **0845 2179951**



This symbol indicates there are warnings and precautions associated with the use of this equipment that should be carefully read and understood before using the equipment.

1. Ensure that the sensor cable is routed and secured to avoid the risk of entanglement or strangulation.
2. Only the recommended power supply shall be used as it is certified to provide two means of patient protection to EN60601-1 in non-hospital environments
3. Consult the manufacturer for power supplies suitable for hospital use
4. Ensure any power cable is routed to avoid a trip hazard
5. Regularly check the power supplies for damage and potential shock risks
6. Clean and disinfect each item regularly in accordance with information herein
7. Regularly test all sensors as described herein
8. Ensure, by testing, that the alarm is annunciated at the carer's location(s)
9. Operate any power supply and charge pager away from direct heat and uncovered.
10. 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.
11. Only use the monitor with accessories approved for use with this product and only in accordance with instructions.
12. If the equipment is modified in any way, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.
13. 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 manufacturer for assistance with Risk Evaluation Tools.
14. Additional levels of mechanical protection may be needed for some patient disorders. Contact the manufacturers for advice
15. Some accessories are fitted with small screws and have plastic bags. Ensure these do not come into the possession of vulnerable patients who might choke on them
16. Any sensor over the mattress (Bed Vacation) has the potential to cause pressure sores . The carer must assess this risk and monitor the use of these products
17. Any sensor over the mattress could pose a fire hazard if in contact with a smouldering cigarette.
18. The monitor and all accessories are designed to operate indoors in a residential environment of 10°C to 30°C and 90%RH max.

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.

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.

Support

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